

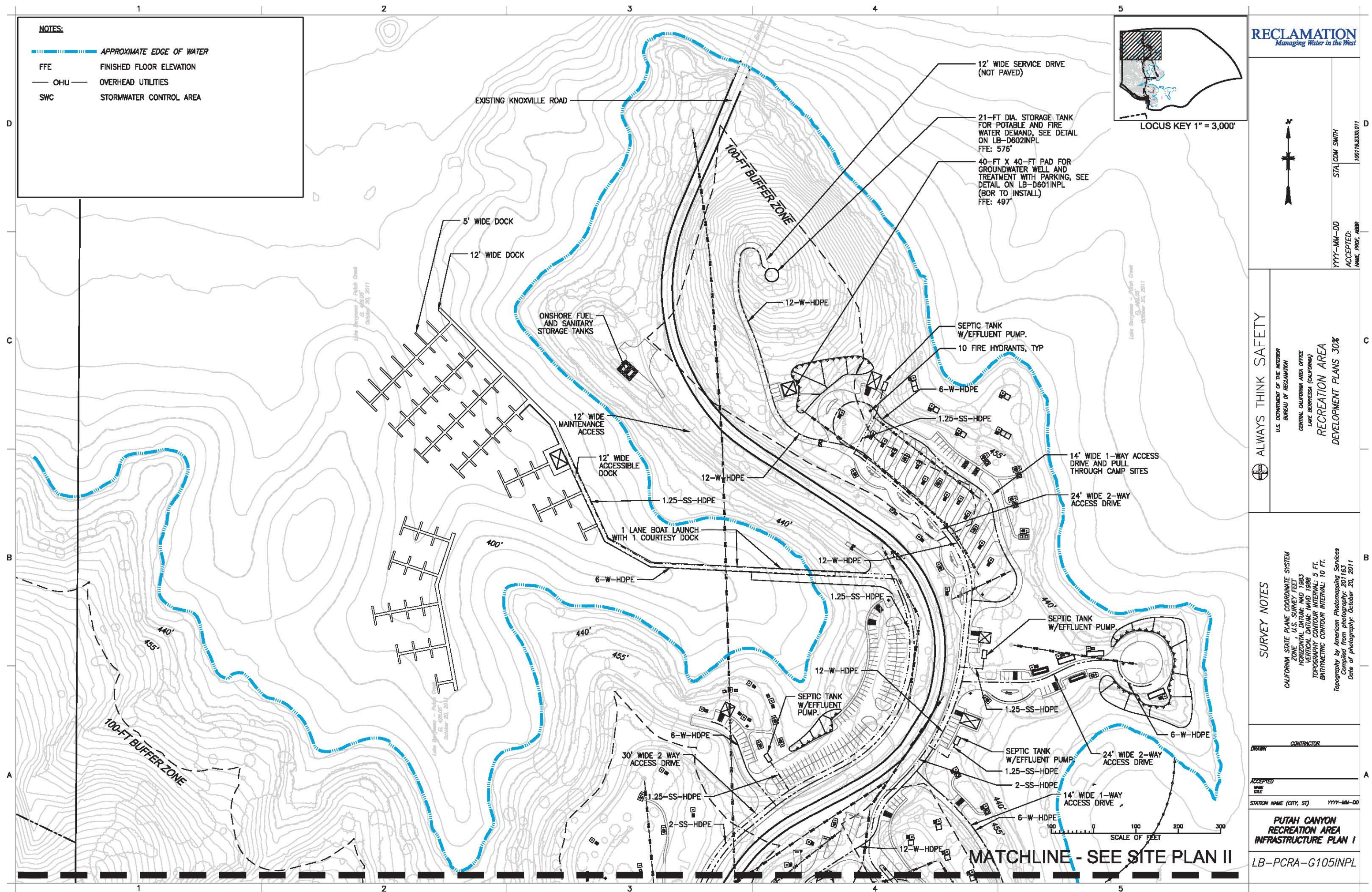
# Appendix A

## Infrastructure Drawings

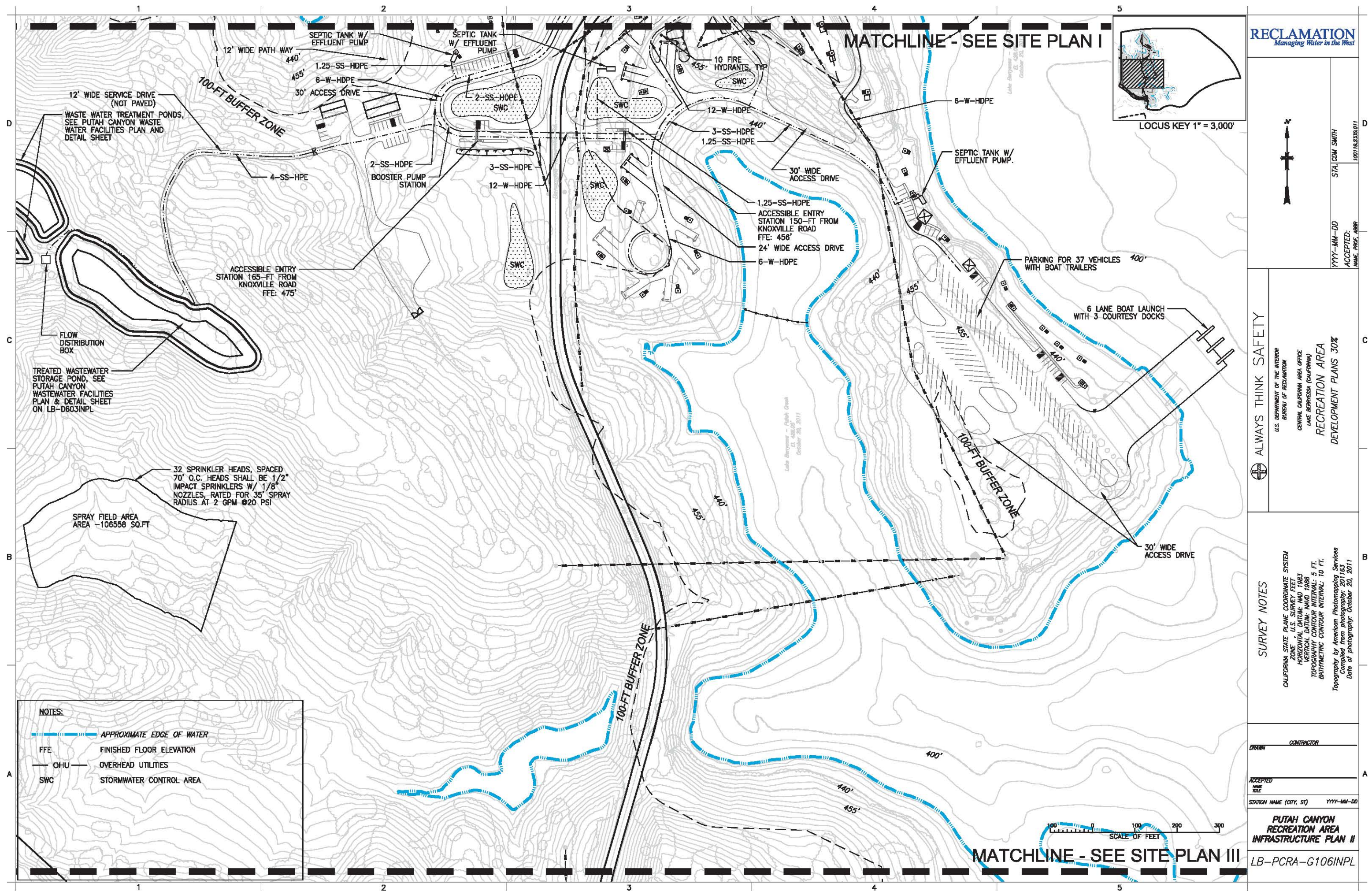
Drawing Number	Sheet Name
LB-PCRA-G105INPL	Putah Canyon Recreation Area – Infrastructure Plan I
LB-PCRA-G106INPL	Putah Canyon Recreation Area – Infrastructure Plan II
LB-PCRA-G107INPL	Putah Canyon Recreation Area – Infrastructure Plan III
LB-MSRA-G206INPL	Monticello Shores Recreation Area – Infrastructure Plan I
LB-MSRA-G207INPL	Monticello Shores Recreation Area – Infrastructure Plan II
LB-MSRA-G208INPL	Monticello Shores Recreation Area – Infrastructure Plan III
LB-MSRA-G209INPL	Monticello Shores Recreation Area – Infrastructure Plan IV
LB-MSRA-G210INPL	Monticello Shores Recreation Area – Infrastructure Plan V
LB-BPRA-G303INPL	Berryessa Point Recreation Area – Infrastructure Plan I
LB-BPRA-G304INPL	Berryessa Point Recreation Area – Infrastructure Plan II
LB-SFRA-G403INPL	Spanish Flat Recreation Area – Infrastructure Plan I
LB-SFRA-G404INPL	Spanish Flat Recreation Area – Infrastructure Plan II
LB-SCRA-G504INPL	Steele Canyon Recreation Area – Infrastructure Plan I
LB-SCRA-G505INPL	Steele Canyon Recreation Area – Infrastructure Plan II
LB-SCRA-G506INPL	Steele Canyon Recreation Area – Infrastructure Plan III
LB-D601INPL	Typical Ground Water Well Site
LB-D602INPL	Typical Water Storage Tank
LB-D603INPL	Putah Canyon Wastewater Facilities Plan & Detail
LB-D604INPL	Monticello Shores Wastewater Facilities Plan & Detail
LB-D605INPL	Spanish Flat Wastewater Facilities Plan & Detail
LB-D606INPL	Lake Berryessa Boat Ramp Gradient Change Detail
LB-D608INPL	Steele Canyon Sample Infrastructure Marina
LB-D609INPL	Steele Canyon Sample Infrastructure Restaurant
LB-D611INPL	Multiple Sites Sample Infrastructure Comfort Station 2
LB-D612INPL	Multiple Sites Sample Infrastructure Comfort Station 1
LB-D613INPL	Multiple Sites Sample Infrastructure Boat Storage
LB-D614INPL	Multiple Sites Sample Infrastructure Various Structures
LB-D615INPL	Multiple Sites Sample Infrastructure Cabin

Draft









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LAKE BERKESS (CALIFORNIA)  
RECREATION AREA  
DEVELOPMENT PLANS 30%

SURVEY NOTES

CALIFORNIA STATE PLANE COORDINATE SYSTEM  
ZONE 10  
U.S. SURVEY FEET  
HORIZONTAL DATUM: NAD 1983  
VERTICAL DATUM: MVD 1988  
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.  
BATHYMETRIC CONTOUR INTERVAL: 10 FT.  
Topography by American Photomapping Services  
Compiled from photography: 2011/03  
Date of photography: October 20, 2011

CONTRACTOR

ACCEPTED

DATE

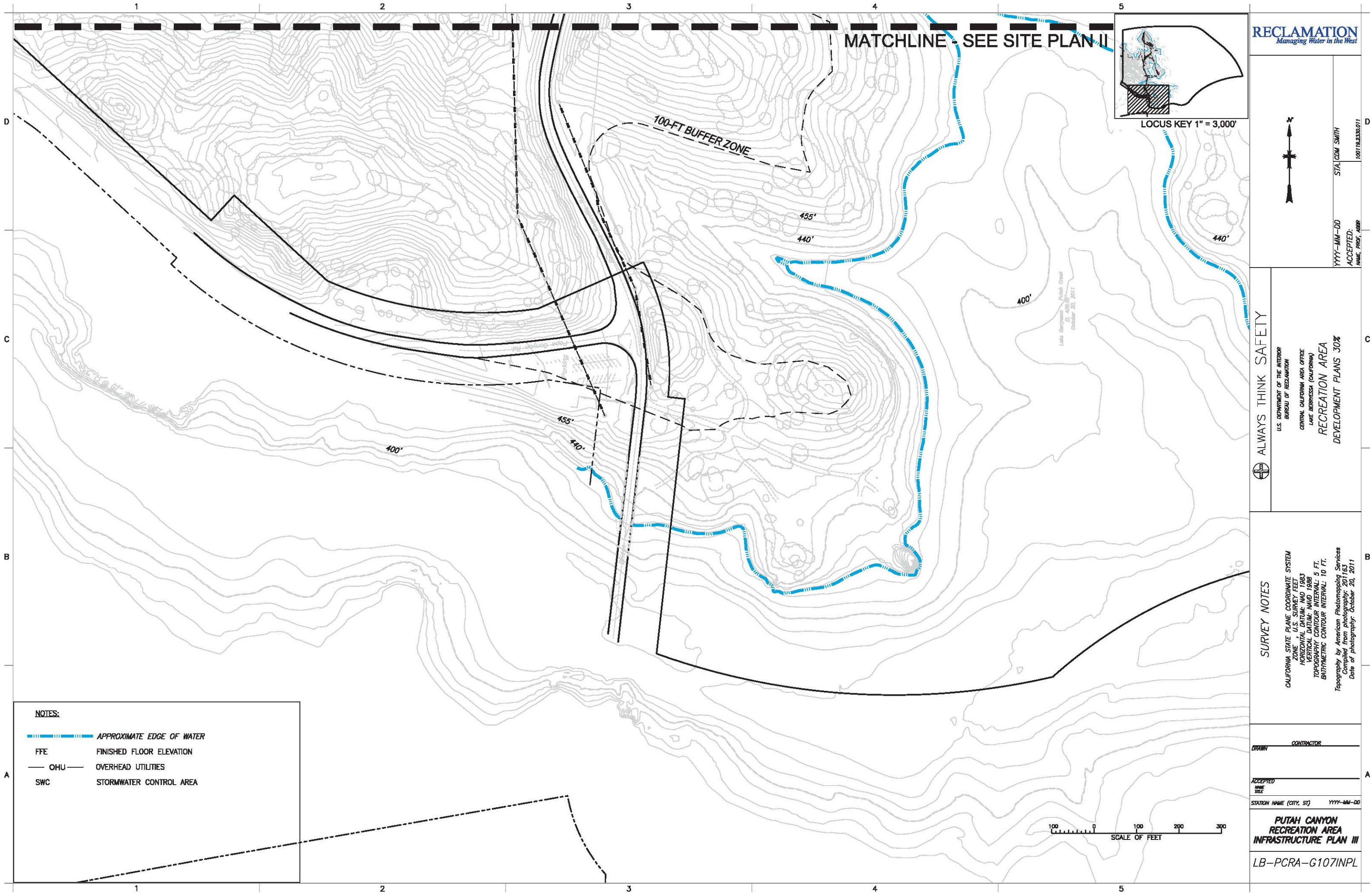
STATION NAME (CITY, ST)

YYYY-MM-DD

PUTAH CANYON  
RECREATION AREA  
INFRASTRUCTURE PLAN II

LB-PCRA-G106INPL





NOTES:

- APPROXIMATE EDGE OF WATER
- FFE FINISHED FLOOR ELEVATION
- OHU OVERHEAD UTILITIES
- SWC STORMWATER CONTROL AREA

MATCHLINE - SEE SITE PLAN II

LOCUS KEY 1" = 3,000'

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SURVEY NOTES

CALIFORNIA STATE PLANE COORDINATE SYSTEM  
ZONE 10  
U.S. SURVEY FEET  
HORIZONTAL DATUM: NAD 1983  
VERTICAL DATUM: NAD 1988  
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.  
BATHYMETRIC CONTOUR INTERVAL: 10 FT.  
Topography by American Photomapping Services  
Compiled from photography: 2011/03  
Date of photography: October 20, 2011

CONTRACTOR

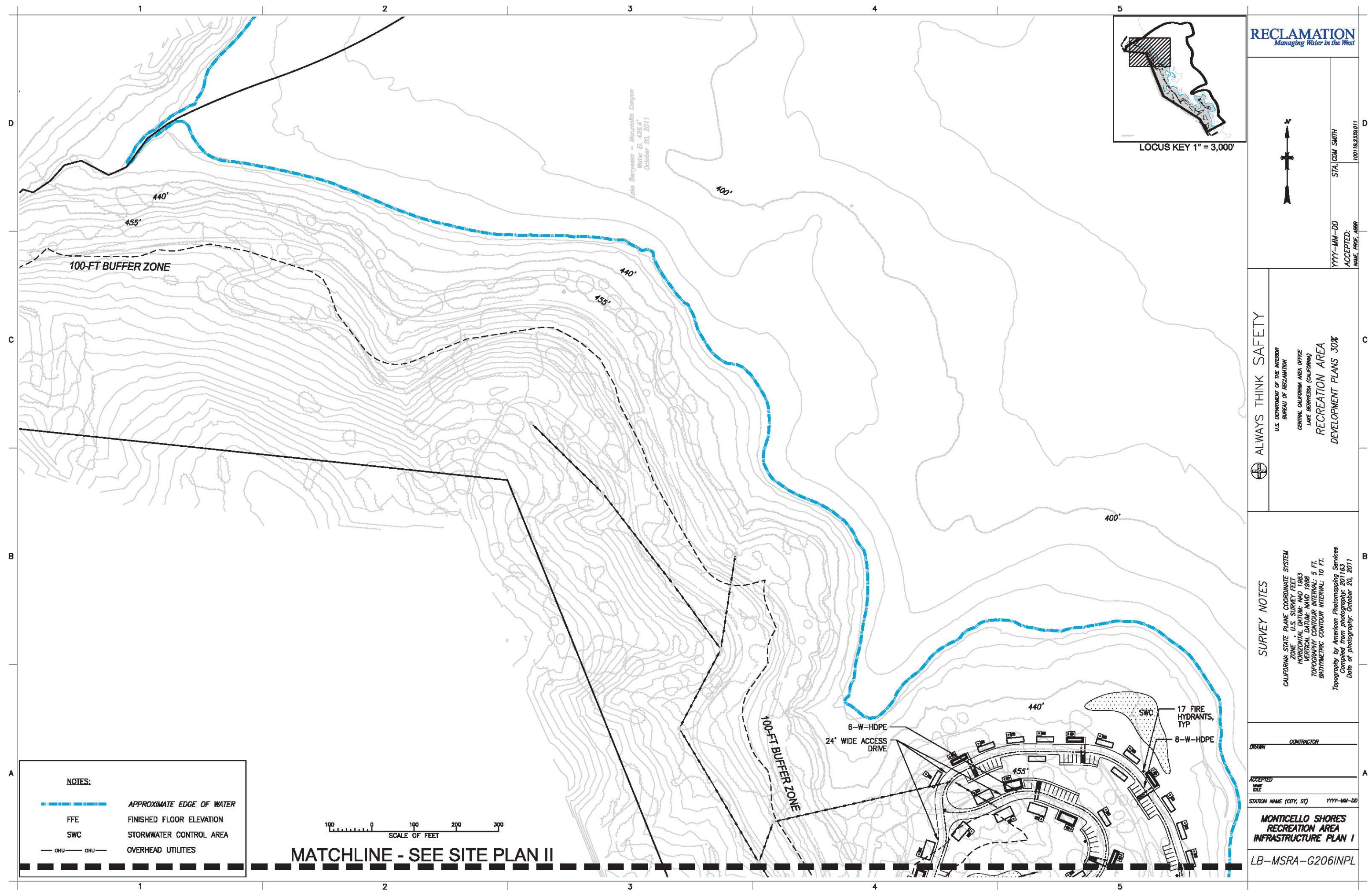
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STATION NAME (CITY, ST) YYYY-MM-DD

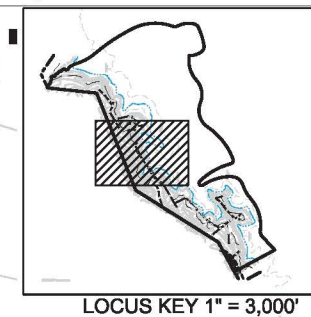
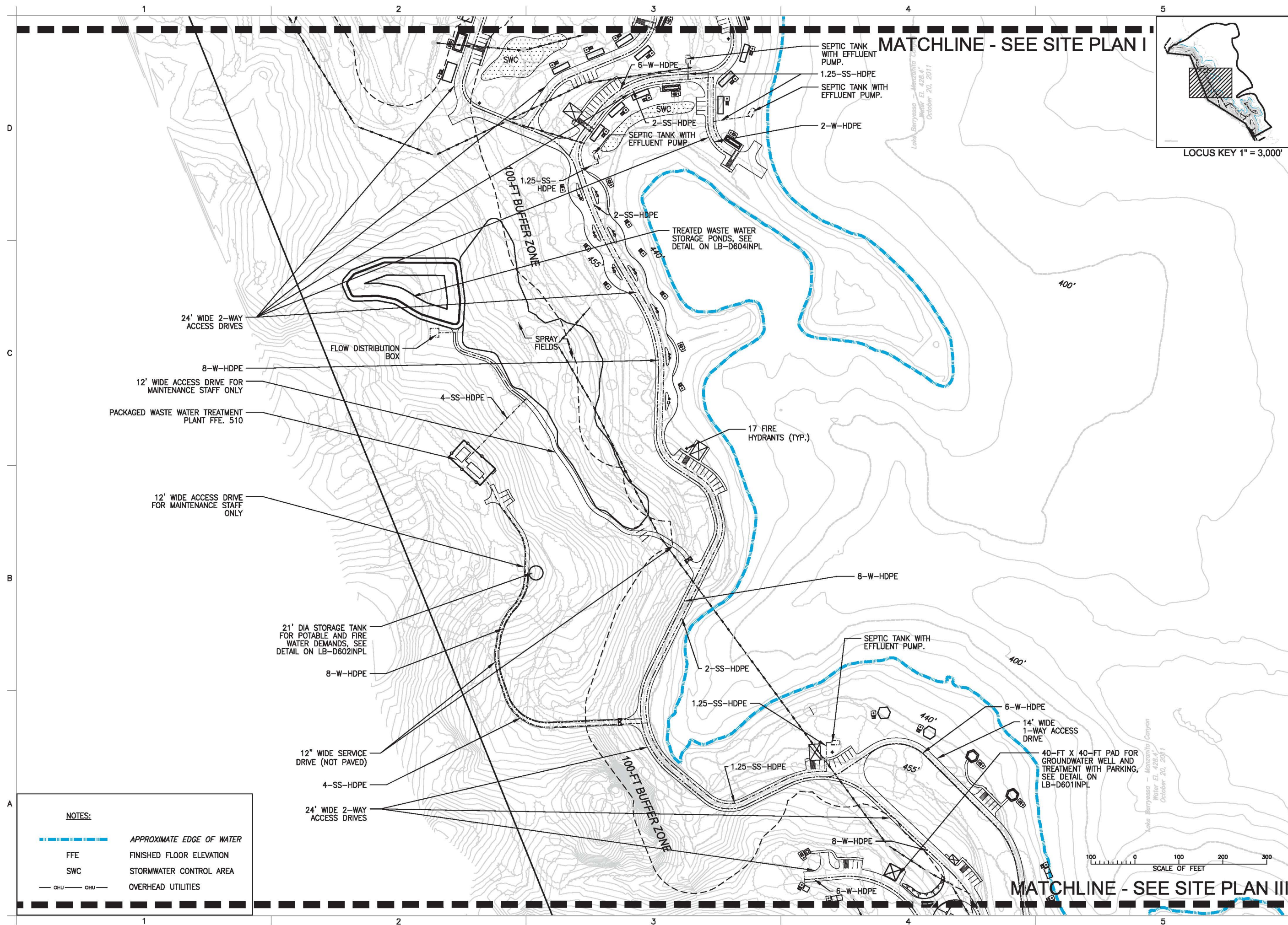
PUTAH CANYON  
RECREATION AREA  
INFRASTRUCTURE PLAN III

LB-PCRA-G107INPL









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RECREATION AREA  
DEVELOPMENT PLANS 30%

SURVEY NOTES

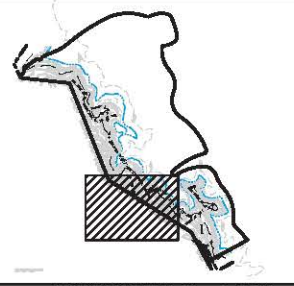
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BATHYMETRIC CONTOUR INTERVAL: 10 FT.  
Topography by American Photomapping Services  
Compiled from photography: 201163  
Date of photography: October 20, 2011

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ACCEPTED \_\_\_\_\_  
NAME  
TITLE  
STATION NAME (CITY, ST) Yyyy-mm-dd

MONTICELLO SHORES  
RECREATION AREA  
INFRASTRUCTURE PLAN II  
LB-MSRA-G207INPL



MATCHLINE - SEE SITE PLAN II



LOCUS KEY 1" = 3,000'

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DRAWING NUMBER AND DATE  
SPECIFICATION NUMBER  
CONTRACT NUMBER  
YYYY-MM-DD  
ACCEPTED:  
NAME, PROJ, ABR

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RECREATION AREA  
DEVELOPMENT PLANS 30%

SURVEY NOTES

CALIFORNIA STATE PLANE COORDINATE SYSTEM  
ZONE 10  
U.S. SURVEY FEET  
HORIZONTAL DATUM: NAD 1983  
VERTICAL DATUM: NAD 1988  
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.  
BATHYMETRIC CONTOUR INTERVAL: 10 FT.  
Topography by American Photomapping Services  
Compiled from photography: 2011/03  
Date of photography: October 20, 2011

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CONTRACTOR  
ACCEPTED  
DATE  
STATION NAME (CITY, ST) YYYY-MM-DD

MONTICELLO SHORES  
CONCEPTUAL SITE PLANS  
INFRASTRUCTURE PLAN III

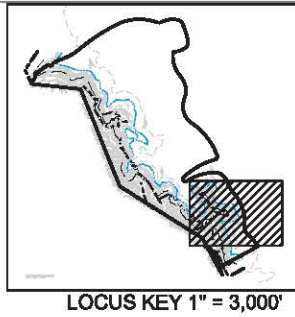
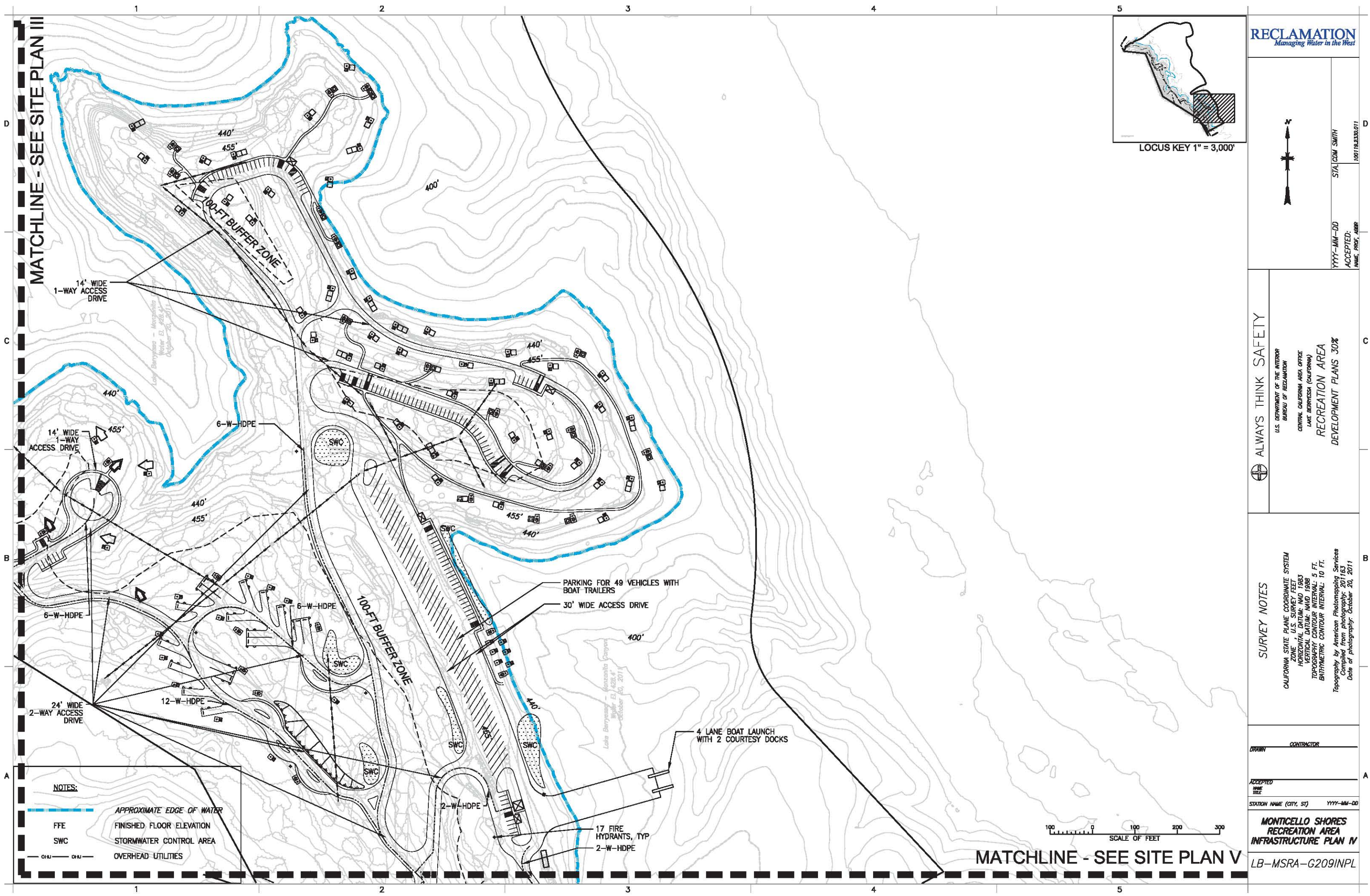
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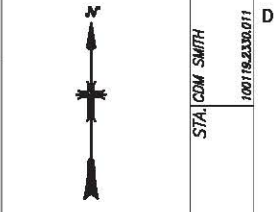
- APPROXIMATE EDGE OF WATER
- FFE FINISHED FLOOR ELEVATION
- SWC STORMWATER CONTROL AREA
- OVERHEAD UTILITIES

100 0 100 200 300  
SCALE OF FEET





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RECREATION AREA  
DEVELOPMENT PLANS 30%

**SURVEY NOTES**  
CALIFORNIA STATE PLANE COORDINATE SYSTEM  
ZONE 10 U.S. SURVEY FEET  
HORIZONTAL DATUM: NAD 1983  
VERTICAL DATUM: NAVD 1988  
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.  
BATHYMETRIC CONTOUR INTERVAL: 10 FT.  
Topography by American Photomapping Services  
Compiled from photography: 2011/03  
Date of photography: October 20, 2011

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NAME  
TITLE  
STATION NAME (CITY, ST) YYY-MM-DD

**MONTICELLO SHORES  
RECREATION AREA  
INFRASTRUCTURE PLAN IV**  
LB-MSRA-G209INPL

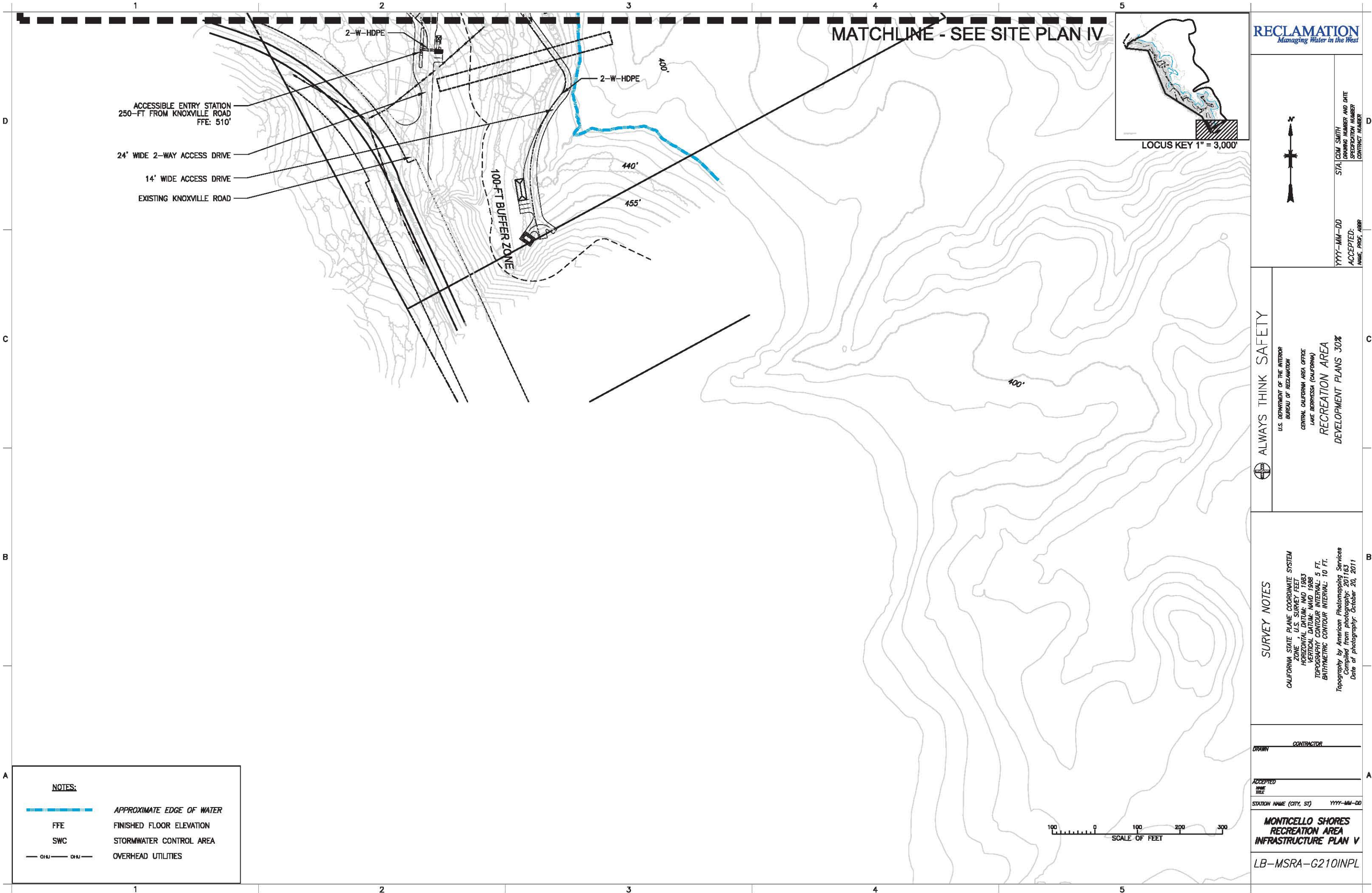
MATCHLINE - SEE SITE PLAN III

MATCHLINE - SEE SITE PLAN V

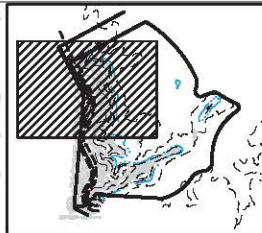
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— APPROXIMATE EDGE OF WATER  
FFE FINISHED FLOOR ELEVATION  
SWC STORMWATER CONTROL AREA  
— OVERHEAD UTILITIES

SCALE OF FEET  
0 100 200 300









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DEVELOPMENT PLANS 30%

**SURVEY NOTES**

CALIFORNIA STATE PLANE COORDINATE SYSTEM  
ZONE 10 U.S. SURVEY FEET  
HORIZONTAL DATUM: NAD 1983  
VERTICAL DATUM: NAD 1988  
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.  
BATHYMETRIC CONTOUR INTERVAL: 10 FT.  
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Date of photography: October 20, 2011

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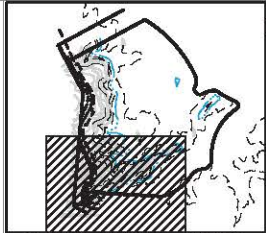
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DATE  
STATION NAME (CITY, ST) YYYY-MM-DD

**BERRYESSA POINT  
RECREATION AREA  
INFRASTRUCTURE PLAN I**

LB-BPRA-G303INPL

**MATCHLINE - SEE SITE PLAN II**





LOCUS KEY 1" = 2,000'

MATCHLINE - SEE SITE PLAN I

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RECREATION AREA  
DEVELOPMENT PLANS 30%

SURVEY NOTES

CALIFORNIA STATE PLANE COORDINATE SYSTEM  
ZONE 10  
U.S. SURVEY FEET  
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VERTICAL DATUM: NAVD 1988  
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BATHYMETRIC CONTOUR INTERVAL: 10 FT.  
Topography by American Photomapping Services  
Compiled from photography: 2011E3  
Date of photography: October 20, 2011

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BERRYESSA POINT  
RECREATION AREA  
INFRASTRUCTURE PLAN II

LB-BPRA-G304INPL

AERIAL PHOTOMAPPING SERVICES  
2525 S. 300th St.  
P.O. Box 1000  
Burien, WA 98147  
(206) 291-0147  
DATE OF PHOTOGRAPHY: 10-20-11  
CONTOUR INTERVAL: 2'

THIS MAP CONFORMS TO NATIONAL  
SCALE AND C.I. NOTED

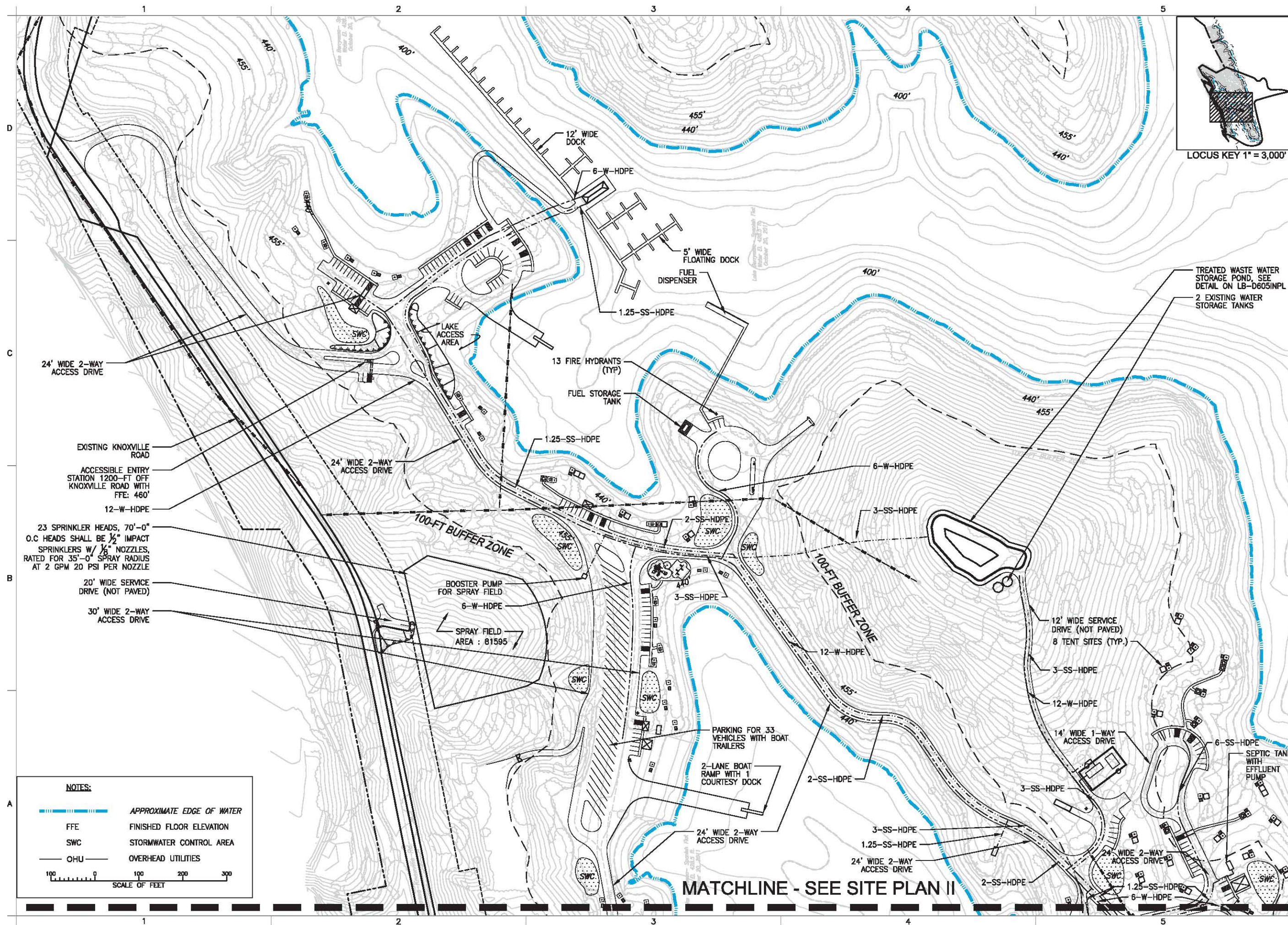
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BERRYESSA MARINA

NOTES:

- APPROXIMATE EDGE OF WATER
- FFE FINISHED FLOOR ELEVATION
- SWC STORMWATER CONTROL AREA
- OHU OVERHEAD UTILITIES

100 0 100 200 300  
SCALE OF FEET





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LOCUS KEY 1" = 3,000'

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SURVEY NOTES

CALIFORNIA STATE PLANE COORDINATE SYSTEM  
ZONE 10  
U.S. SURVEY FEET  
HORIZONTAL DATUM: NAD 1983  
VERTICAL DATUM: NAVD 1988  
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.  
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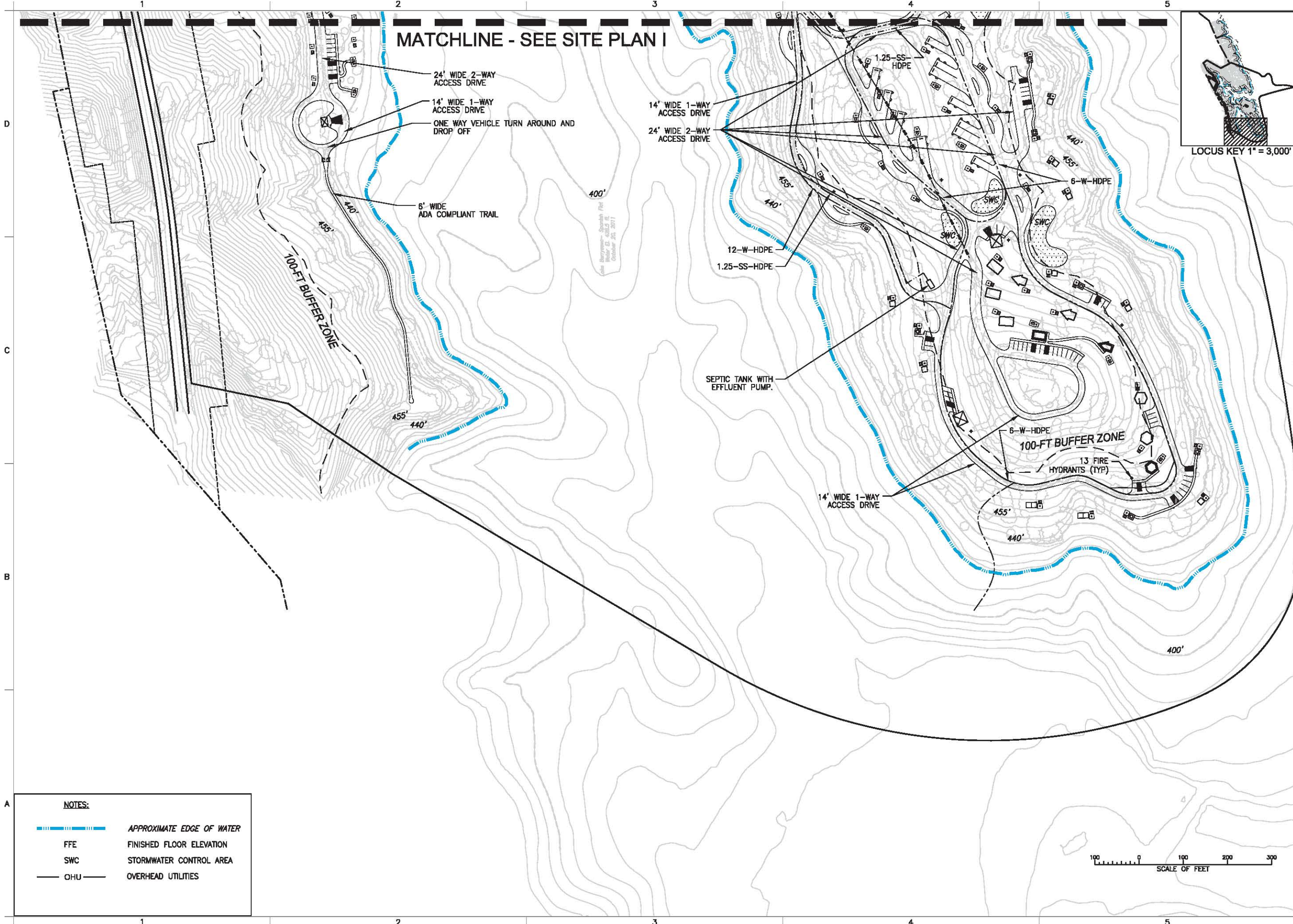
CONTRACTOR

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DATE

LB-SFRA-G403INPL





MATCHLINE - SEE SITE PLAN I

LOCUS KEY 1" = 3,000'

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RECREATION AREA  
DEVELOPMENT PLANS 30%

SURVEY NOTES

CALIFORNIA STATE PLANE COORDINATE SYSTEM  
ZONE 10  
U.S. SURVEY FEET  
HORIZONTAL DATUM: NAD 1983  
VERTICAL DATUM: MVD 1988  
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.  
BATHYMETRIC CONTOUR INTERVAL: 10 FT.  
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Compiled from photography: 2011E3  
Date of photography: October 20, 2011

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DATE

STATION NAME (CITY, ST)

YYYY-MM-DD

SPANISH FLAT  
RECREATION AREA  
INFRASTRUCTURE PLAN II

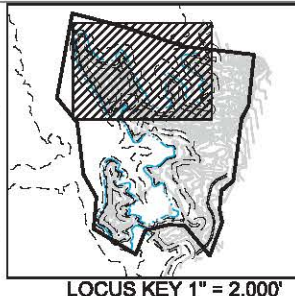
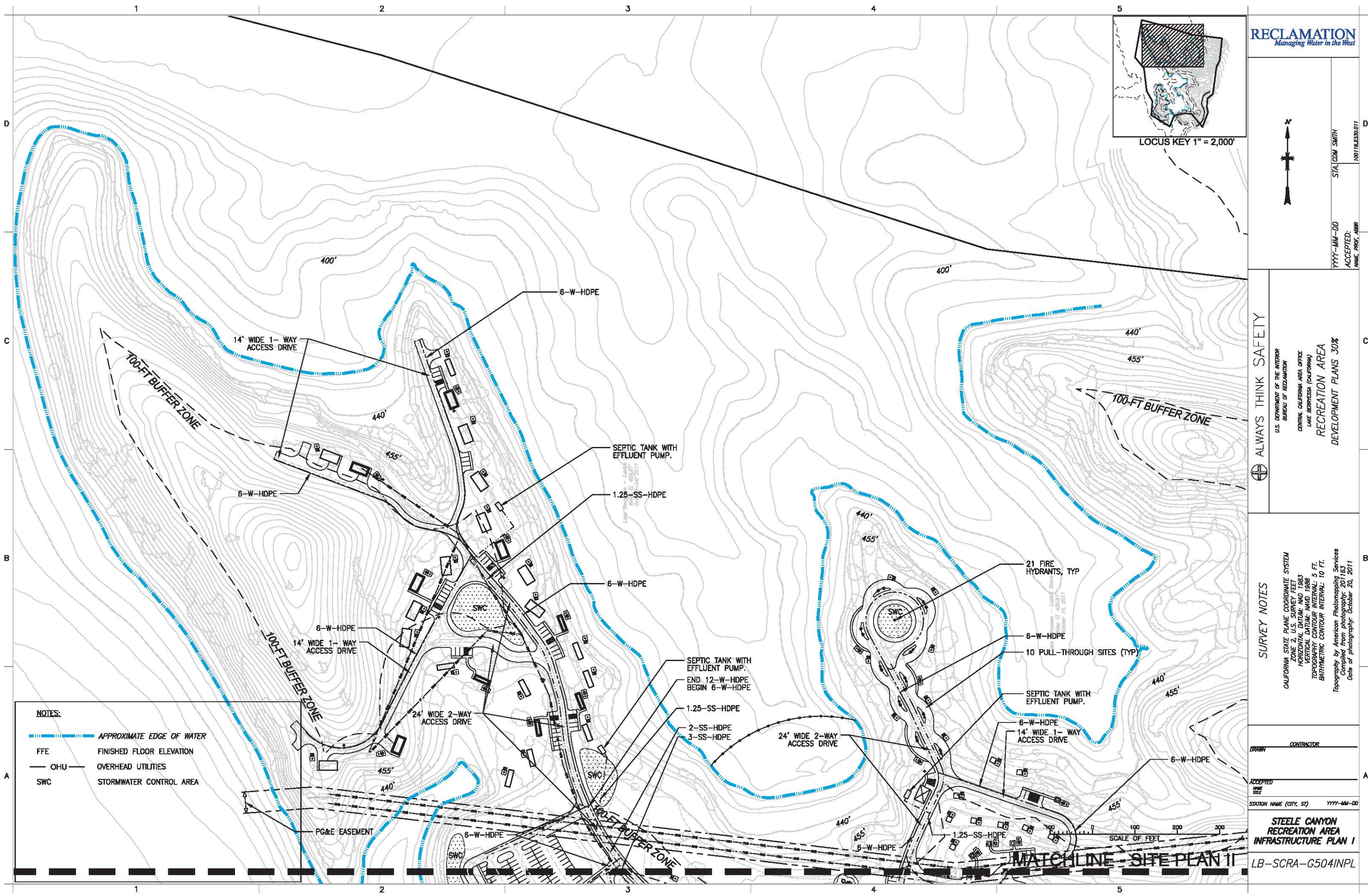
LB-SFRA-G404INPL

NOTES:

- APPROXIMATE EDGE OF WATER
- FFE FINISHED FLOOR ELEVATION
- SWC STORMWATER CONTROL AREA
- OHU OVERHEAD UTILITIES

SCALE OF FEET





LOCUS KEY 1" = 2,000'

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RECREATION AREA  
DEVELOPMENT PLANS 30%

SURVEY NOTES

CALIFORNIA STATE PLANE COORDINATE SYSTEM  
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VERTICAL DATUM: MVD 1988  
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Date of photography: October 20, 2011

CONTRACTOR

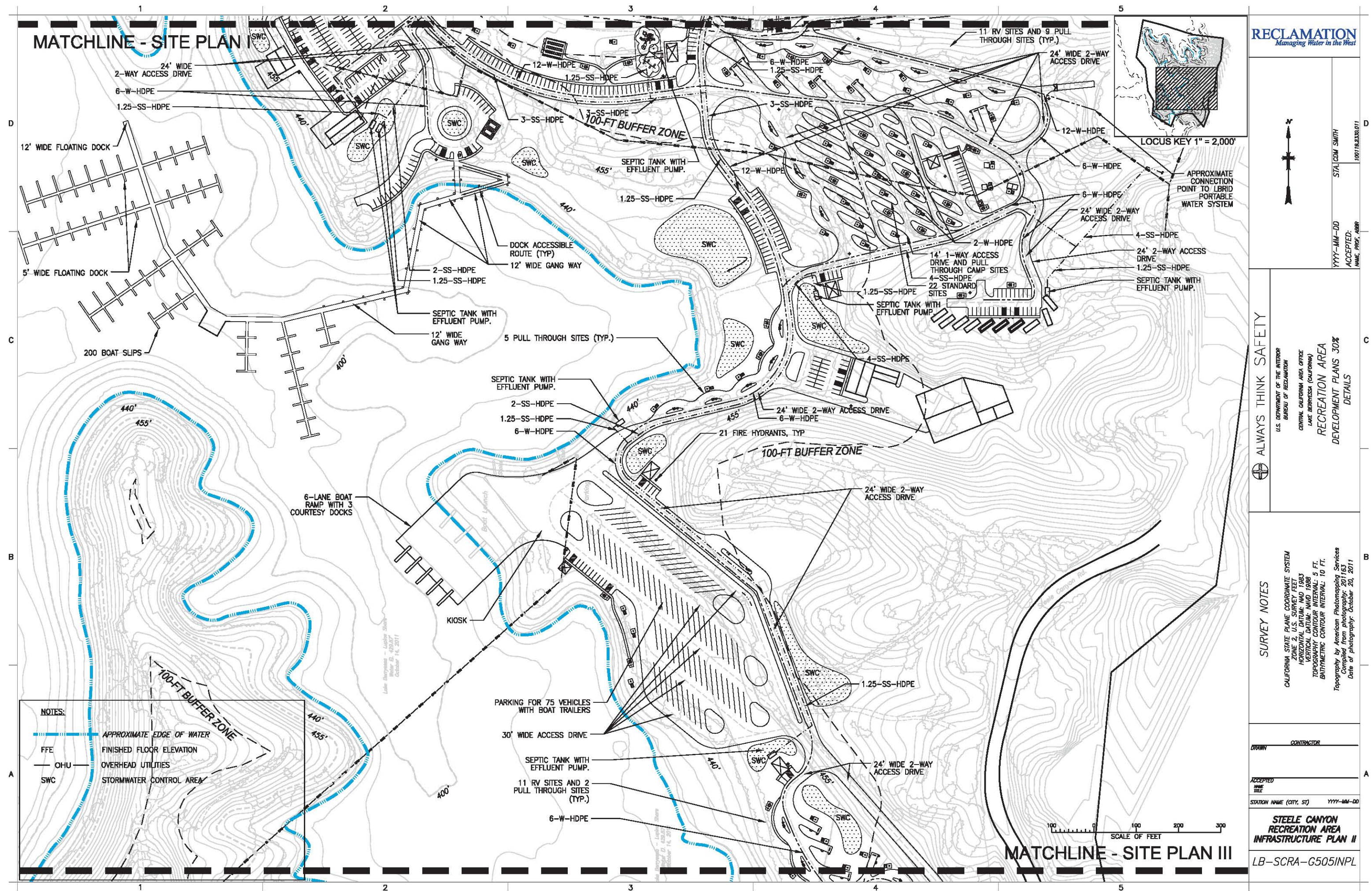
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STATION NAME (CITY, ST) YYYY-MM-DD

STEELE CANYON  
RECREATION AREA  
INFRASTRUCTURE PLAN 1

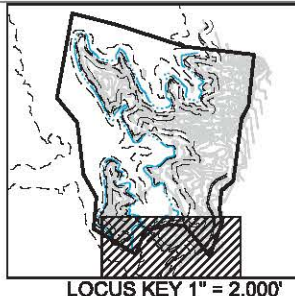
LB-SCRA-G504INPL







MATCHLINE - SITE PLAN II



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RECREATION AREA  
DEVELOPMENT PLANS 30%

SURVEY NOTES

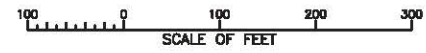
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Date of photography: October 20, 2011

CONTRACTOR  
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ACCEPTED  
DATE  
STATION NAME (CITY, ST) YYYY-MM-DD

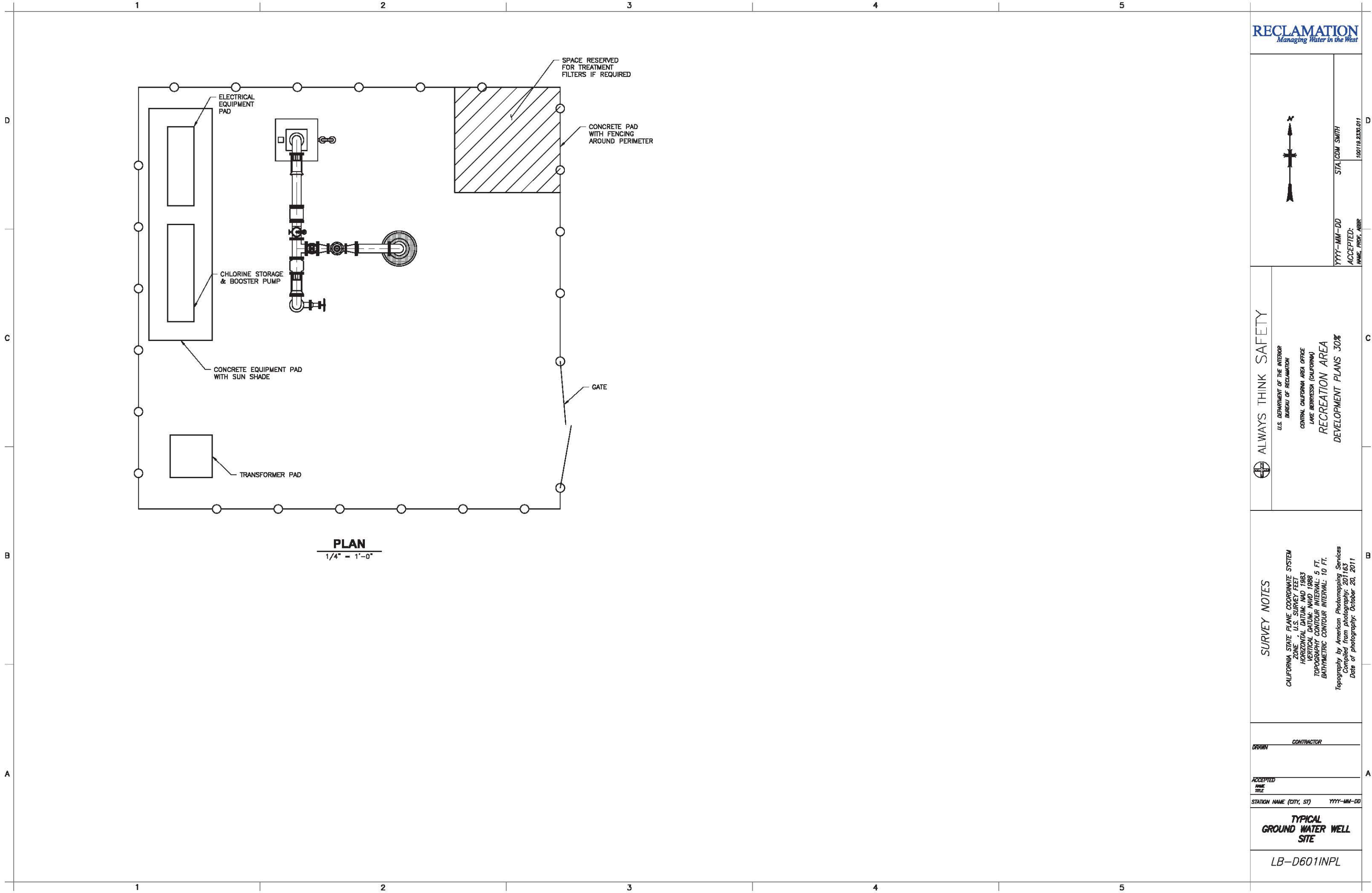
STEELE CANYON  
RECREATION AREA  
INFRASTRUCTURE PLAN III

LB-SCRA-G506INPL

- NOTES:
- APPROXIMATE EDGE OF WATER
  - FFE FINISHED FLOOR ELEVATION
  - OHU OVERHEAD UTILITIES
  - SWC STORMWATER CONTROL AREA







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DEVELOPMENT PLANS 30%

SURVEY NOTES

CALIFORNIA STATE PLANE COORDINATE SYSTEM  
ZONE 10  
U.S. SURVEY FEET  
HORIZONTAL DATUM: NAD 1983  
VERTICAL DATUM: NAD 1988  
TOPOGRAPHY CONTOUR INTERVAL: 5 FT.  
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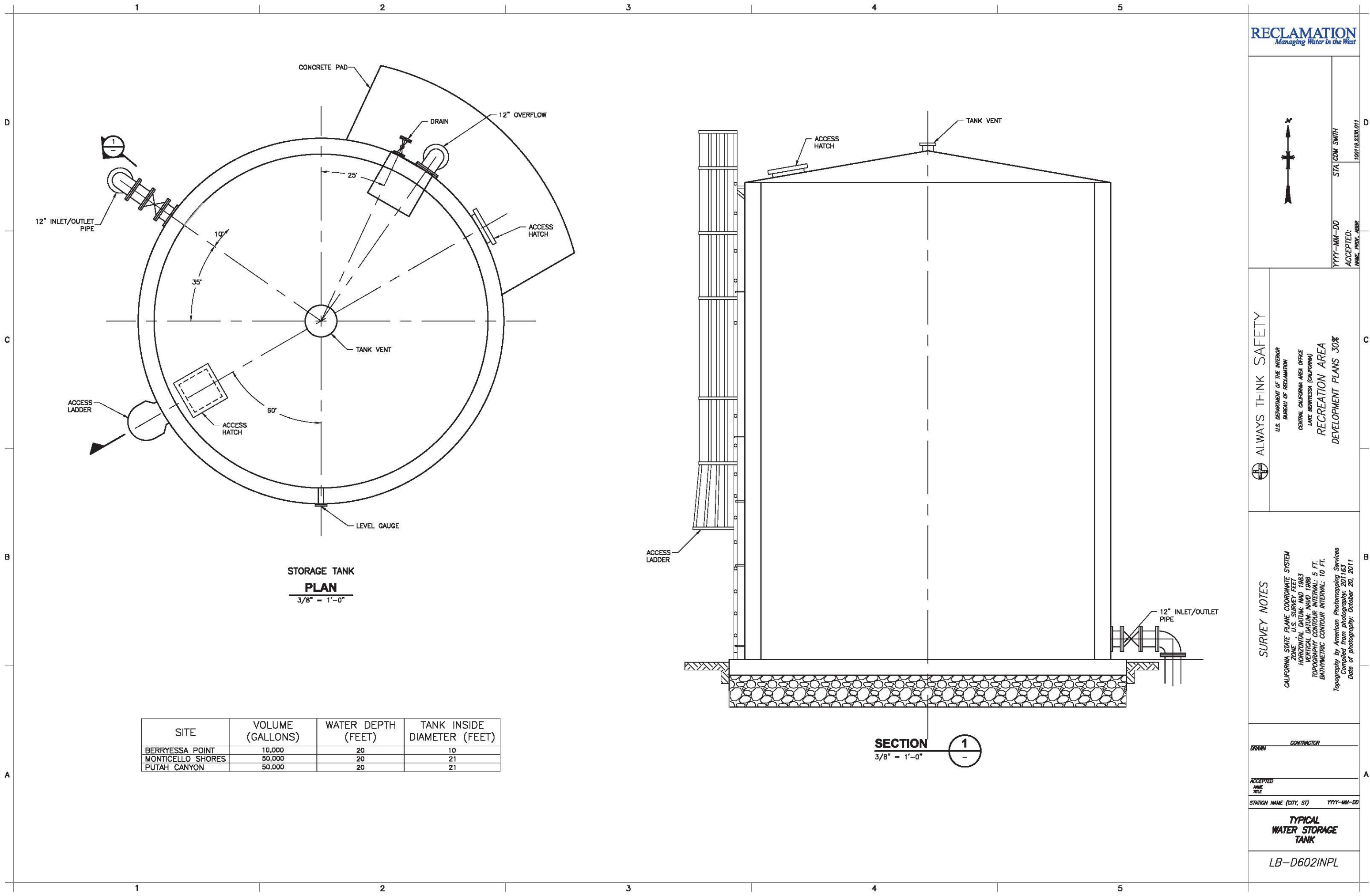
ACCEPTED  
NAME  
TITLE

STATION NAME (CITY, ST) YYYY-MM-DD

TYPICAL  
GROUND WATER WELL  
SITE

LB-D601INPL





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RECREATION AREA  
DEVELOPMENT PLANS 30%

SURVEY NOTES

CALIFORNIA STATE PLANE COORDINATE SYSTEM  
ZONE 10  
U.S. SURVEY FEET  
HORIZONTAL DATUM: NAD 1983  
VERTICAL DATUM: MVD 1988  
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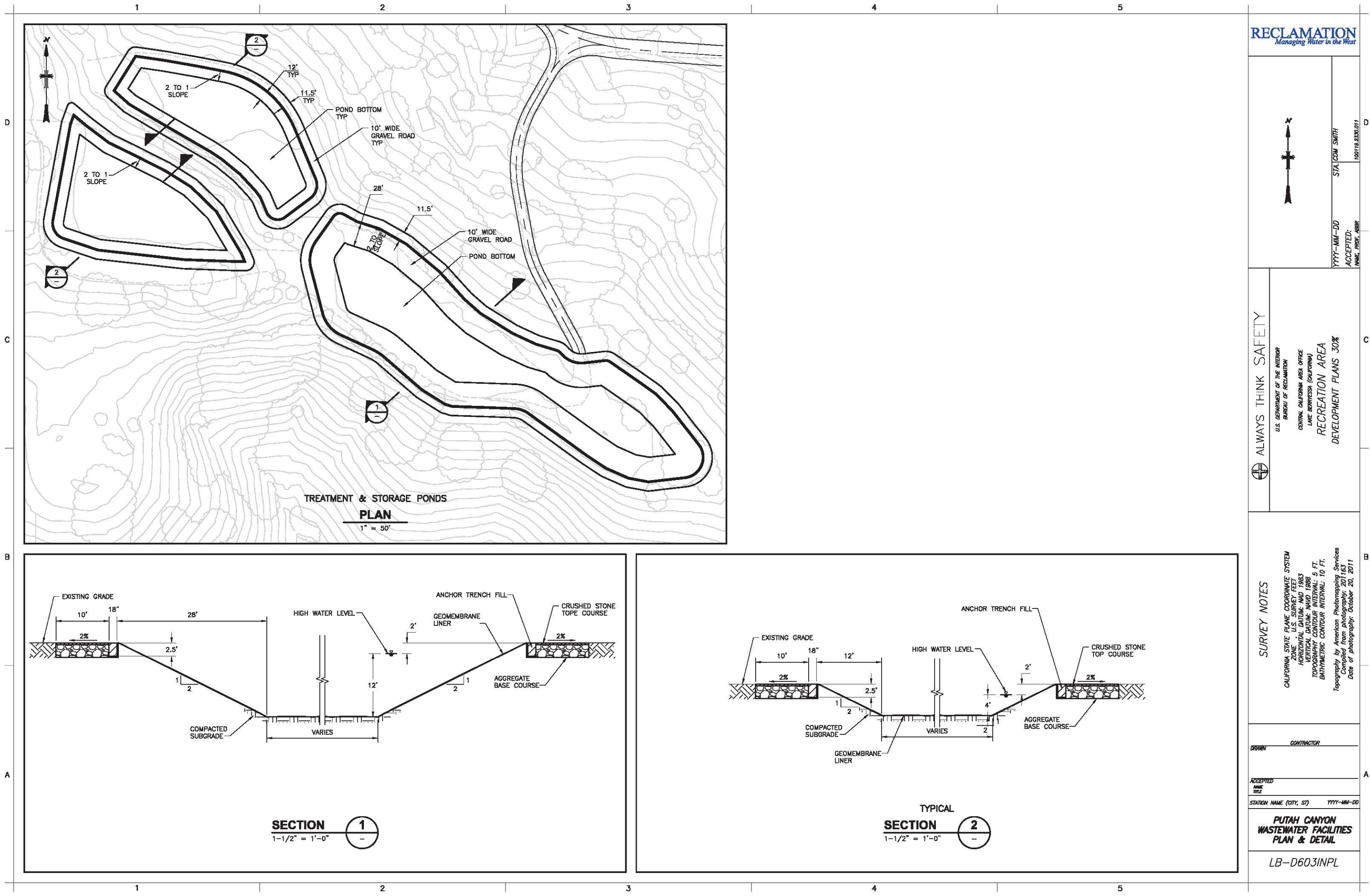
ACCEPTED  
NAME  
TITLE

STATION NAME (CITY, ST) Yyyy-mm-dd

TYPICAL  
WATER STORAGE  
TANK

LB-D602INPL





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RECREATION AREA  
DEVELOPMENT PLANS 30%

SURVEY NOTES  
CALIFORNIA STATE PLANE COORDINATE SYSTEM  
ZONE 10  
U.S. SURVEY FEET  
HORIZONTAL DATUM: NAD 1983  
VERTICAL DATUM: NAVD 1988  
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Compiled from photography: 201163  
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CONTRACTOR  
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ACCEPTED  
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STATION NAME (CITY, ST) YYYY-MM-DD

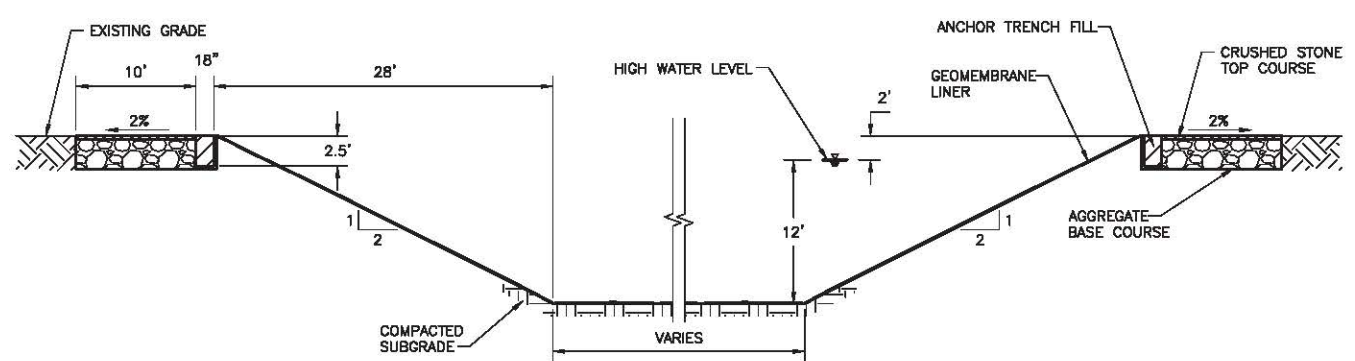
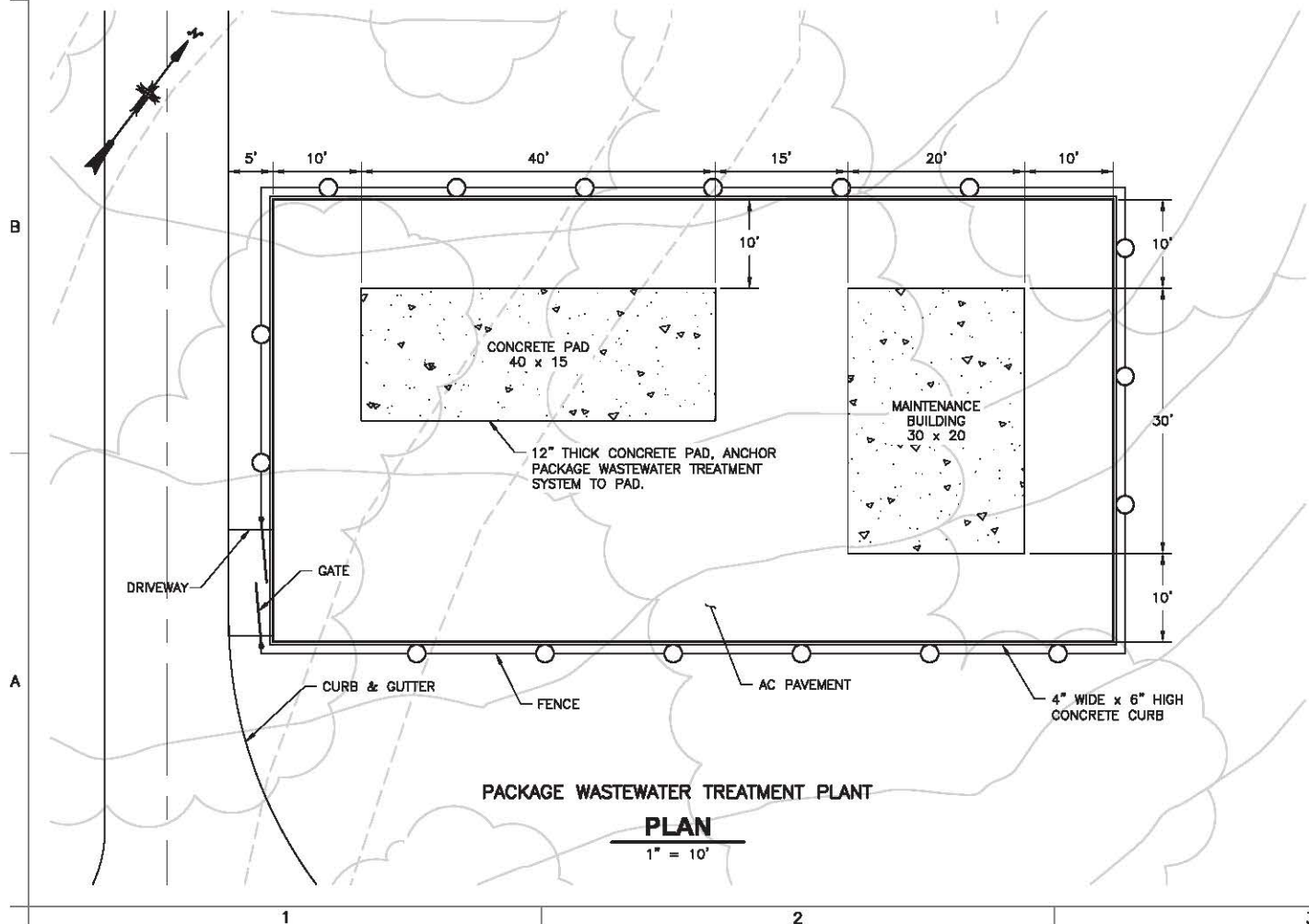
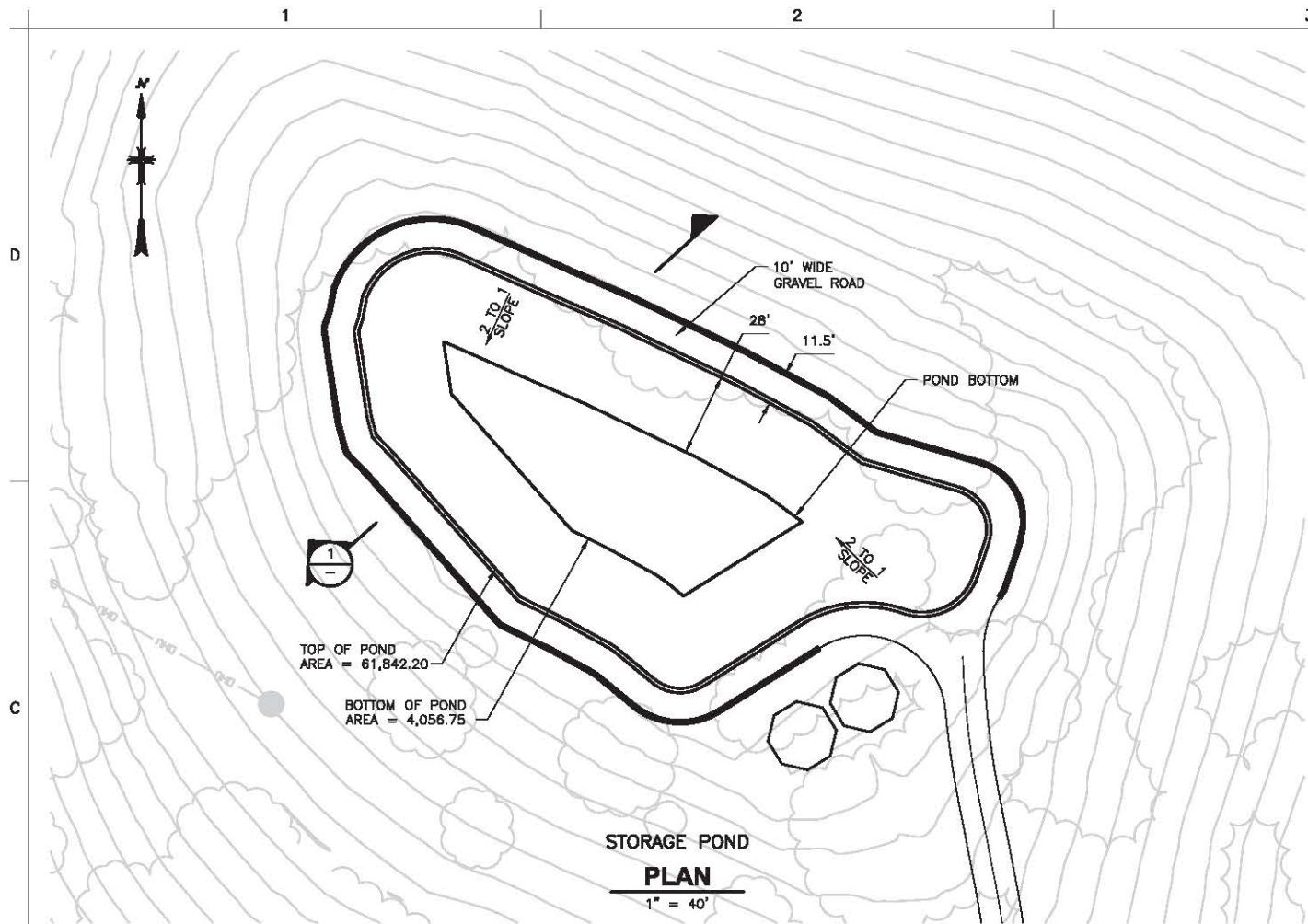
PUTAH CANYON  
WASTEWATER FACILITIES  
PLAN & DETAIL

LB-D603INPL







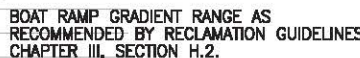


**SECTION 1**  
1-1/2" = 1'-0"

**RECLAMATION**  
*Managing Water in the West*

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1. ACCORDING TO: CALIFORNIA LAYOUT AND DESIGN GUIDELINES FOR MARINA BERTHING FACILITIES (DATED: JULY 2005), ADDITIONAL DETAILS FOR DESIGN OF BOAT RAMPS CAN BE FOUND IN: LAYOUT, DESIGN AND CONSTRUCTION HANDBOOK FOR SMALL CRAFT BOAT LAUNCHING FACILITIES (DATED: MARCH 1991; PAGES 5 & 6) WHICH STATES THE FOLLOWING:

A. TOE OF RAMPS SHOULD BE CONSTRUCTED TO AN ELEVATION NOT LESS THAN 3-FT BELOW DESIGN LOW WATER.

B. ON LAKES SUBJECT TO EXTREME WATER LEVELS, IT IS SUGGESTED THAT 25-YEAR WATER LEVEL AVERAGES BE USED TO ESTABLISH THE DESIGN LOW WATER.

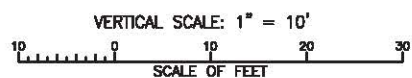
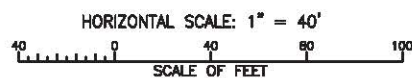
C. IF 25-YEAR DATA IS NOT AVAILABLE, AT LEAST 10-YEAR WATER LEVEL AVERAGES SHOULD BE USED.

E. IF SLOPE CHANGES ARE NECESSARY, THE CHANGE SHALL BE FROM FLATTER TO STEEPER (GOING DOWNHILL) TO REDUCE POTENTIAL FOR DAMAGE TO LONG-SHAFT OUTBOARD ENGINES.

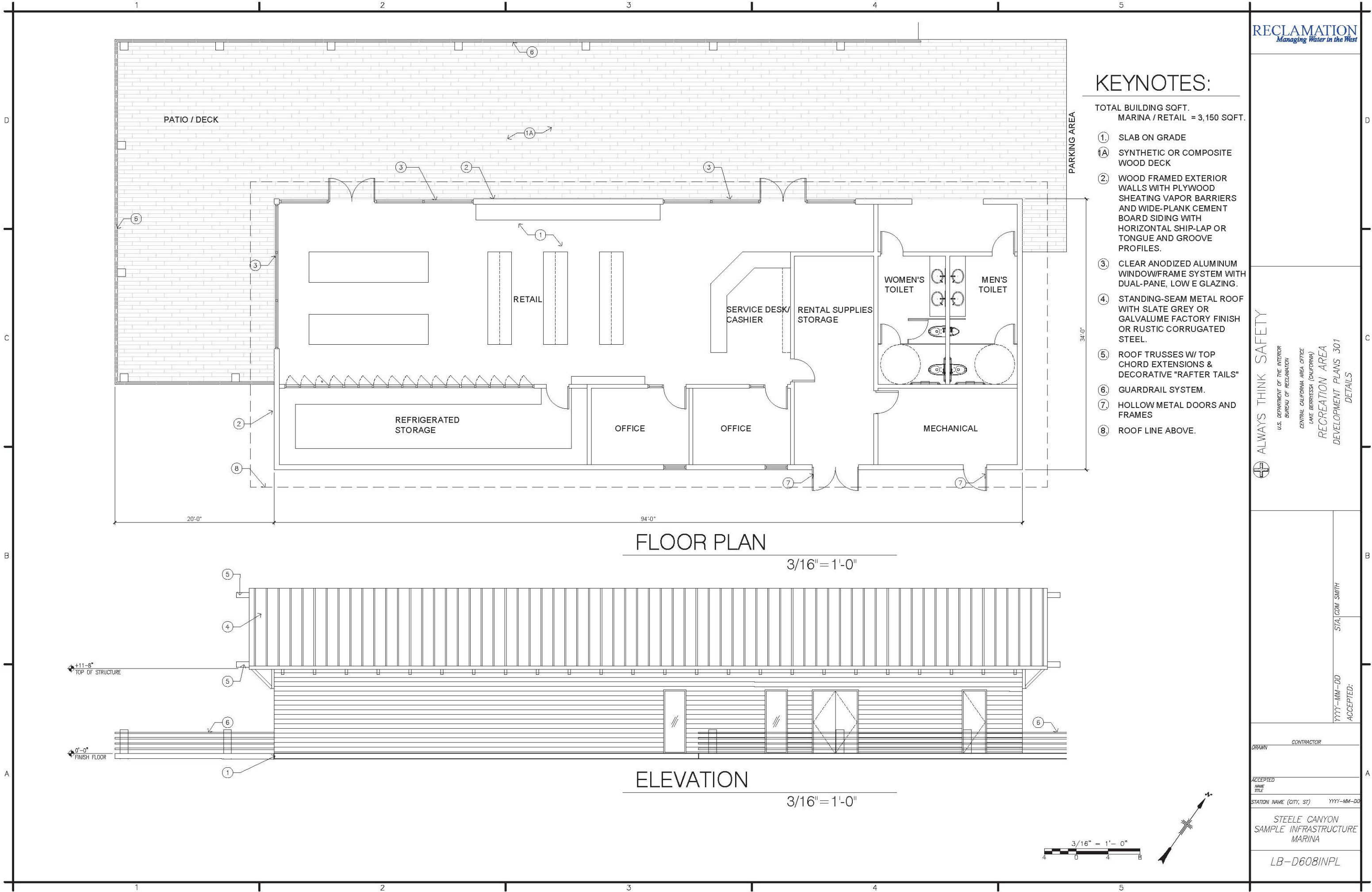
F. IF A STEEP TO FLAT GRADE CHANGE IS NECESSARY, PROVIDE A MINIMUM 30-FT LONG, SMOOTH VERTICAL CURVE AT THE CHANGED LOCATION.

G. AT THE HEAD OF THE RAMP, PROVIDE A 15-20-FOOT SMOOTH VERTICAL CURVE TRANSITION BETWEEN THE RAMP AND RAMP APRON.

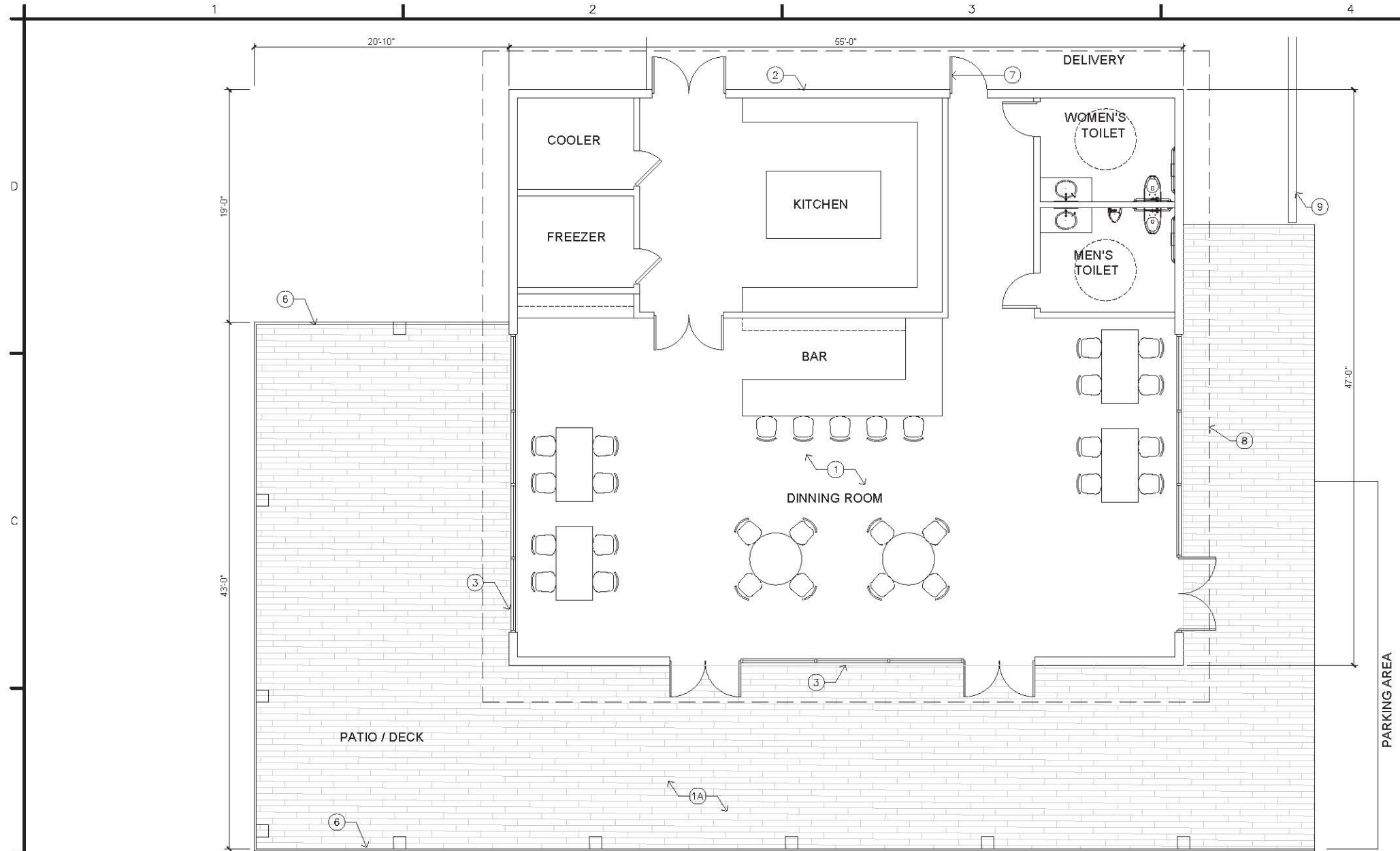
## EXISTING BOAT RAMP PROFILES





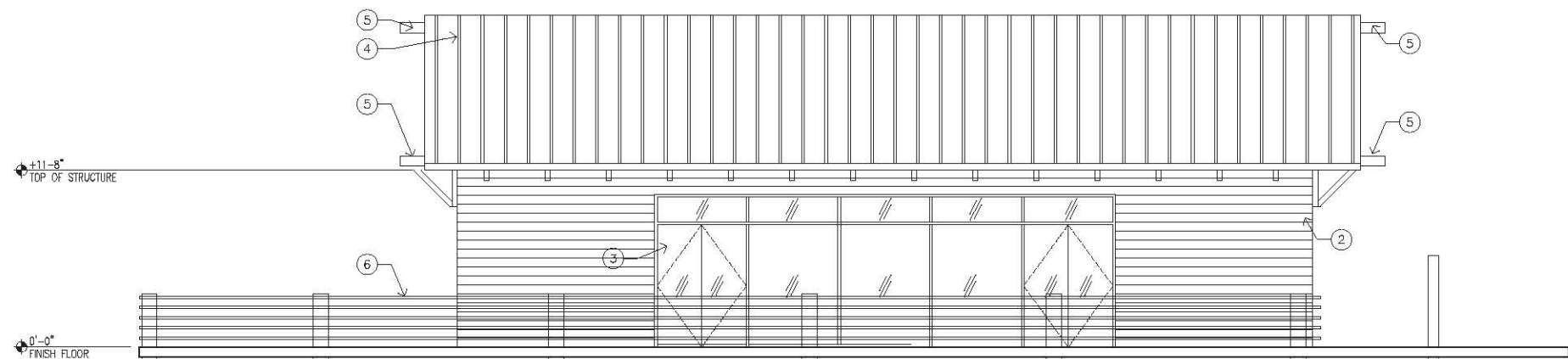






FLOOR PLAN

3/16" = 1'-0"



ELEVATION

3/16" = 1'-0"

## KEYNOTES:

TOTAL BUILDING SQFT.  
RESTAURANT = 2,590 SQFT.

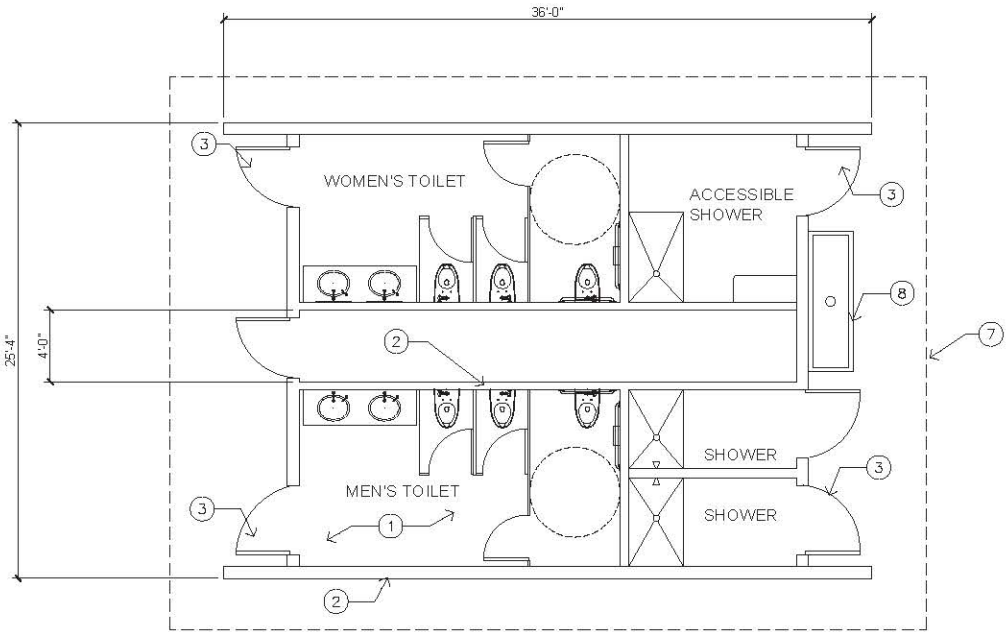
- ① SLAB ON GRADE
- ①A SYNTHETIC OR COMPOSITE WOOD DECK
- ② WOOD FRAMED EXTERIOR WALLS WITH PLYWOOD SHEATING VAPOR BARRIERS AND WIDE-PLANK CEMENT BOARD SIDING WITH HORIZONTAL SHIP-LAP OR TONGUE AND GROOVE PROFILES.
- ③ CLEAR ANODIZED ALUMINUM WINDOW/FRAME SYSTEM WITH DUAL-PANE, LOW E GLAZING.
- ④ STANDING-SEAM METAL ROOF WITH SLATE GREY OR GALVALUME FACTORY FINISH OR RUSTIC CORRUGATED STEEL.
- ⑤ ROOF TRUSSES W/ TOP CHORD EXTENSIONS & DECORATIVE "RAFTER TAILS"
- ⑥ GUARDRAIL SYSTEM.
- ⑦ HOLLOW METAL DOORS AND FRAMES
- ⑧ ROOF LINE ABOVE.
- ⑨ SERVICE ACCESS



KEYNOTES

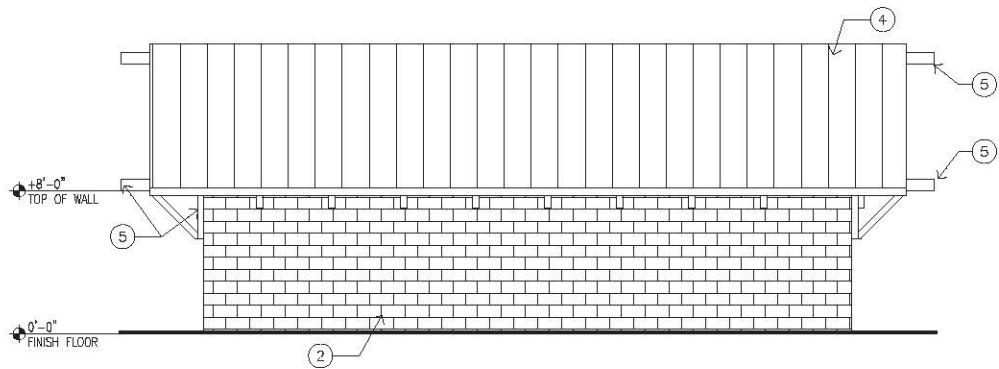
TOTAL BUILDING SQ. FT.  
COMFORT STATION W/ SHOWERS: 900 SF

- 1 SLAB ON GRADE EXPOSED CONCRETE WITH LIGHT BROOM FINISH AND SLIP-RESISTANT EPOXY COATING.
- 2 8" CONCRETE MASONRY UNIT WITH INTEGRAL COLOR
- 3 HOLLOW METAL DOORS AND FRAMES
- 4 STANDING SEAM METAL ROOF WITH SLATE GREY OR GALVALUME FACTORY FINISH OR RUSTIC CORRUGATED STEEL
- 5 ROOF TRUSSES W/ TOP CHORD EXTENSIONS & DECORATIVE "RAFTER TAILS"
- 6 2"x2" WELDED WIRE MESH
- 7 ROOF LINE ABOVE
- 8 S.S. DISH WASH SINK



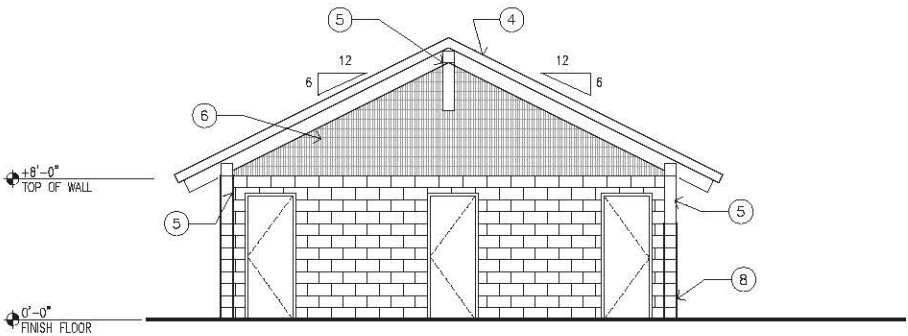
FLOOR PLAN w/ SHOWERS

3/16" = 1'-0"



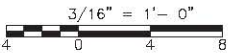
ELEVATION

3/16" = 1'-0"



ELEVATION

3/16" = 1'-0"



ALWAYS THINK SAFETY

U.S. DEPARTMENT OF THE INTERIOR  
BUREAU OF RECLAMATION  
CENTRAL CALIFORNIA AREA OFFICE  
LANE BERRYESSA (CALIFORNIA)  
RECREATION AREA  
DEVELOPMENT PLANS 301  
DETAILS



STA. CDM SMITH  
YYYY-MM-DD  
ACCEPTED:

CONTRACTOR

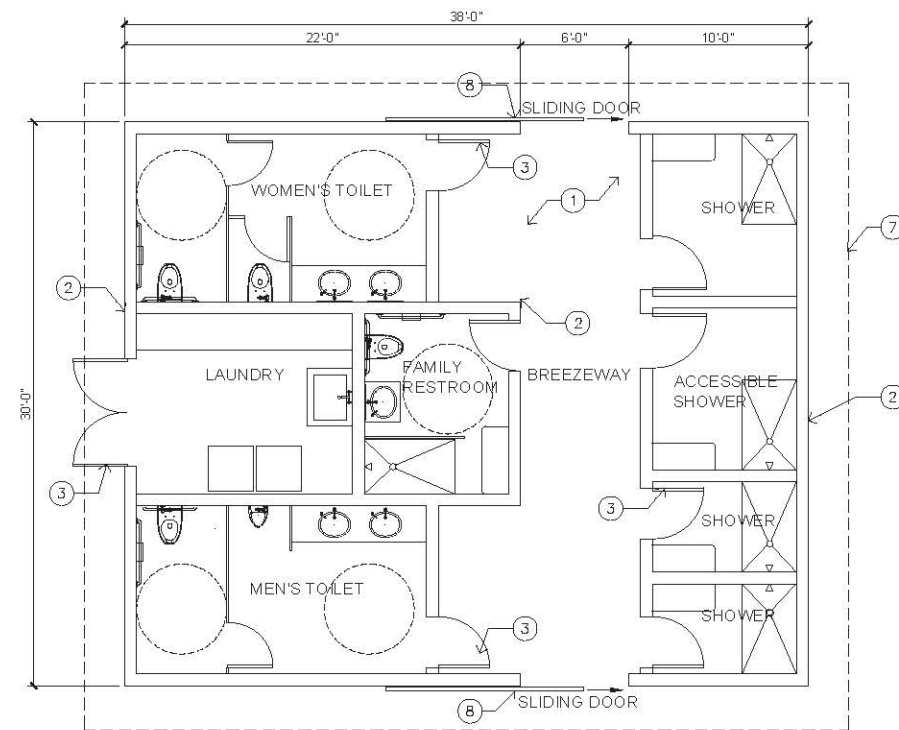
ACCEPTED  
NAME  
TITLE

STATION NAME (CITY, ST) YYYY-MM-DD

MULTIPLE SITES  
SAMPLE INFRASTRUCTURE  
COMFORT STATION 2

LB-D611INPL



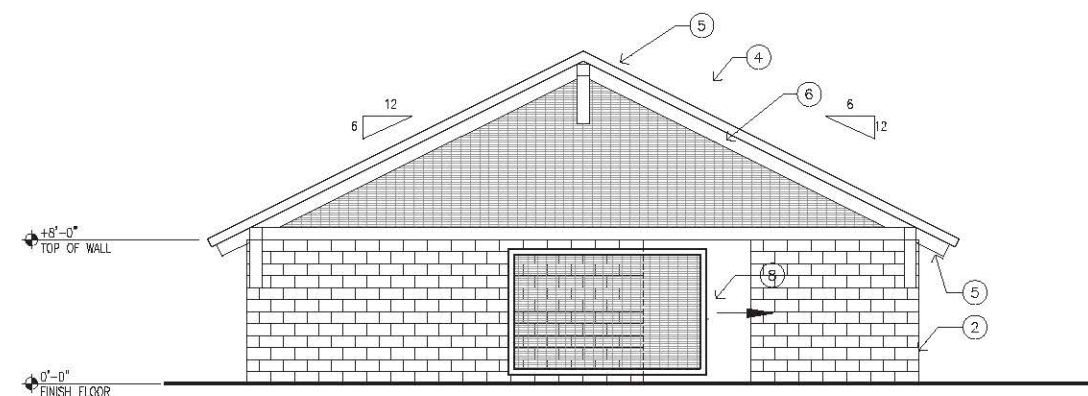


## KEYNOTES

- TOTAL BUILDING SQ. FT.  
COMFORT STATION W/ SHOWERS: 1,120 SF
- ① SLAB ON GRADE EXPOSED CONCRETE WITH LIGHT BROOM FINISH AND SLIP-RESISTANT EPOXY COATING.
  - ② 8" CONCRETE MASONRY UNIT WITH INTEGRAL COLOR
  - ③ HOLLOW METAL DOORS AND FRAMES
  - ④ STANDING SEAM METAL ROOF WITH SLATE GRAY OR GALVALUME FACTORY FINISH OR RUSTIC CORRUGATED STEEL
  - ⑤ ROOF TRUSSES W/ TOP CHORD EXTENSIONS & DECORATIVE "RAFTER TAILS"
  - ⑥ 2"x2" WELDED WIRE MESH
  - ⑦ ROOF LINE ABOVE
  - ⑧ SLIDING DOOR ON GUIDING CHANNELS WITH 2"x2" WELDED WIRE MESH

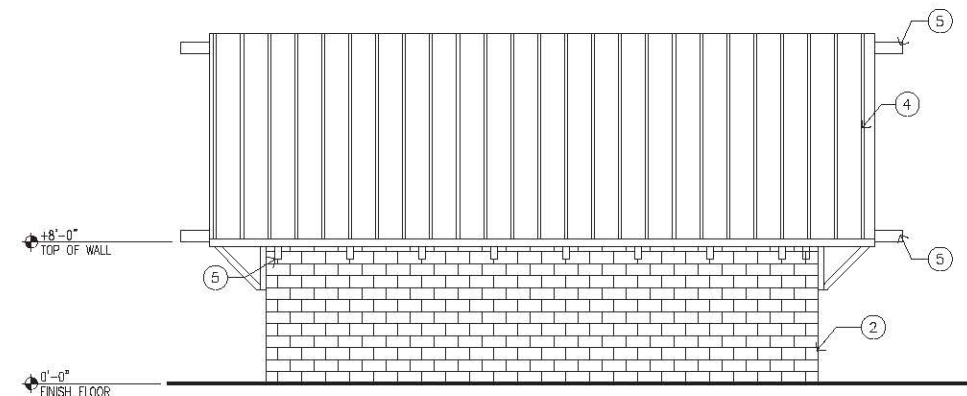
## FLOOR PLAN

3/16" = 1'-0"



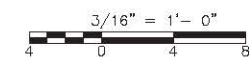
## ELEVATION

3/16" = 1'-0"



## ELEVATION

3/16" = 1'-0"



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TITLE

STATION NAME (CITY, ST) YYYY-MM-DD

MULTIPLE SITES  
SAMPLE INFRASTRUCTURE  
COMFORT STATION 1

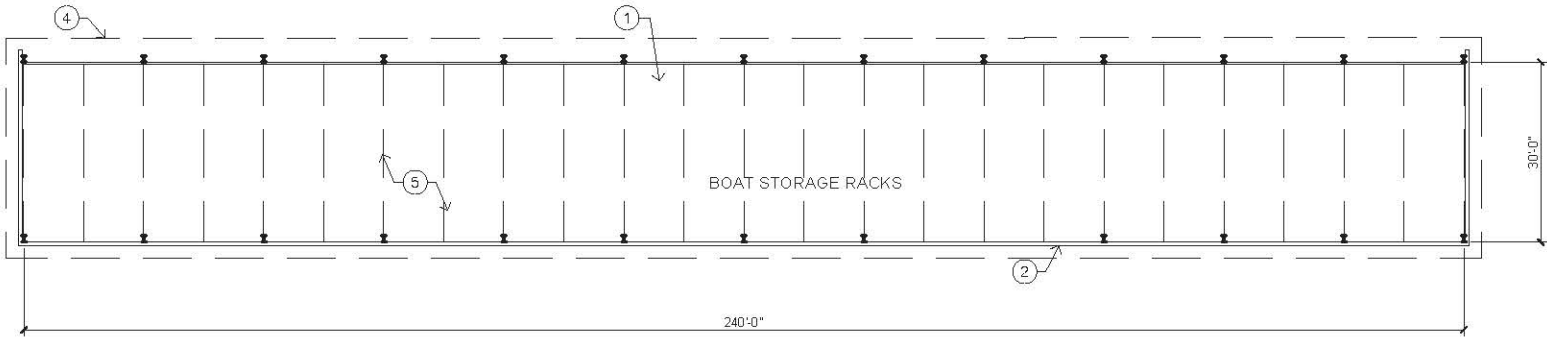
LB-D612INPL



KEYNOTES:

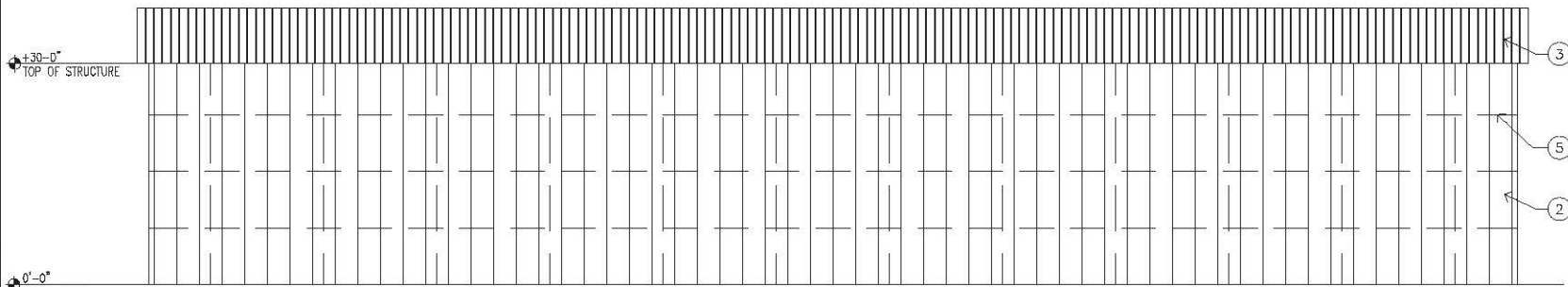
TOTAL BUILDING SQFT.  
BOAT STORAGE = 7,200 SQFT.

- 1. SLAB ON GRADE EXPOSED CONCRETE WITH LIGHT BROOM FINISH AND SLIP-RESISTANT EPOXY COATING.
- 2. METAL PANEL WALLS OVER PRE-ENGINEERED STEEL FRAME STRUCTURE
- 3. STANDING-SEAM METAL ROOF WITH SLATE GREY OR GALVALUME FACTORY FINISH OR RUSTIC CORRUGATED STEEL.
- 4. ROOF LINE ABOVE.
- 5. PRE-MANUFACTURED STORAGE RACK STRUCTURE



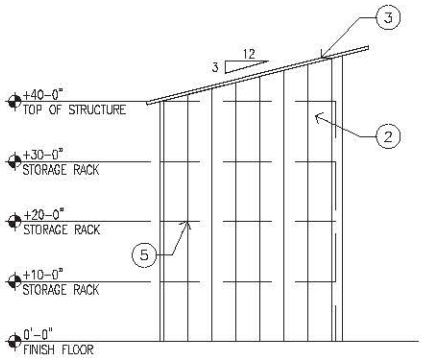
FLOOR PLAN

1/16" = 1'-0"



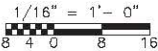
ELEVATION

1/16" = 1'-0"

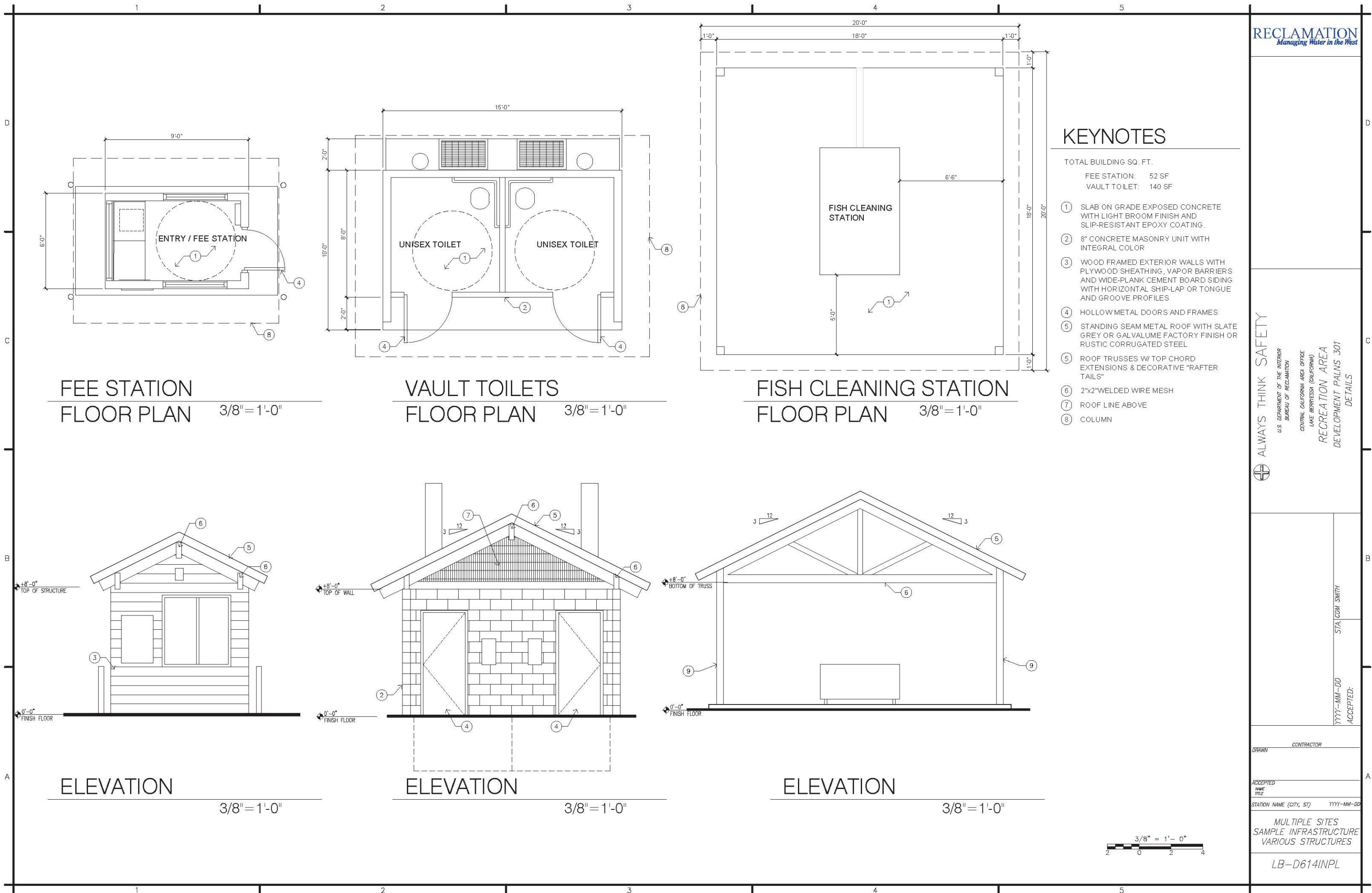


ELEVATION

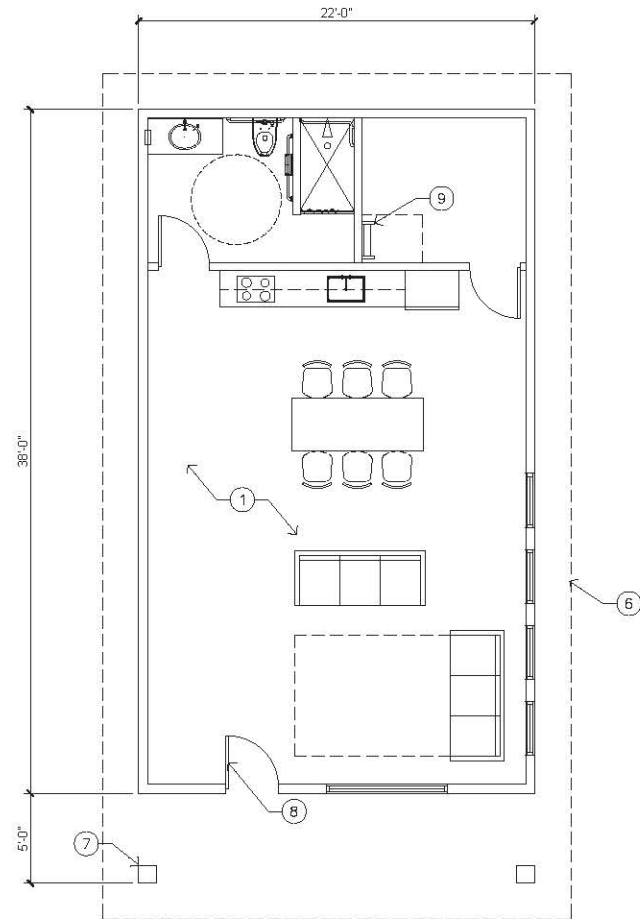
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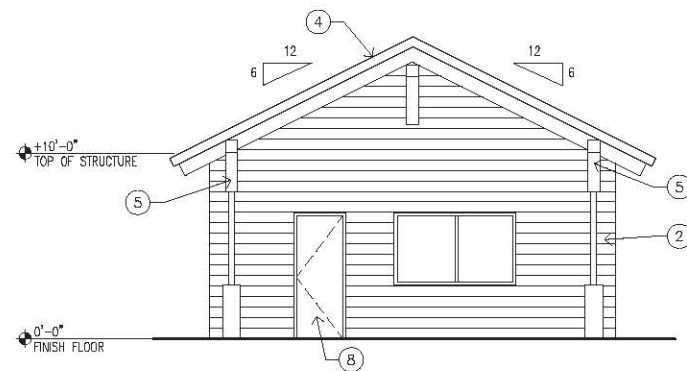






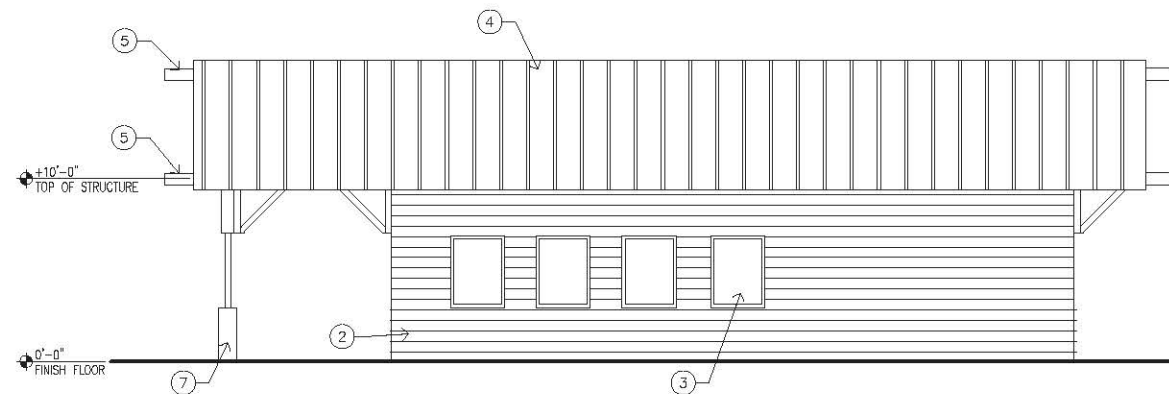
FLOOR PLAN

3/16" = 1'-0"



ELEVATION

3/16" = 1'-0"



ELEVATION

3/16" = 1'-0"

## KEYNOTES

TOTAL BUILDING SQ. FT.

CABIN 835 SF

- 1 PRESSURE TREATED WOOD FRAMED FLOOR W/ PLYWOOD SHEATHING AND WOOD PLANK FLOORING.
- 2 WOOD FRAMED EXTERIOR WALLS WITH PLYWOOD SHEATHING, VAPOR BARRIERS AND WIDE-PLANK CEMENT BOARD SIDING WITH HORIZONTAL SHIP-LAP OR TONGUE AND GROOVE PROFILES
- 3 CLEAR ANODIZED ALUMINUM WINDOW/FRAME SYSTEM WITH DUAL-PANE, LOW E GLAZING.
- 4 STANDING SEAM METAL ROOF WITH SLATE GREY OR GALVALUME FACTORY FINISH OR RUSTIC CORRUGATED STEEL
- 5 ROOF TRUSSES W/ TOP CHORD EXTENSIONS & DECORATIVE "RAFTER TAILS"
- 6 ROOF LINE ABOVE
- 7 COLUMN BASE AT 3'-0" AFF
- 8 SOLID CORE WOOD DOORS AND FRAMES
- 9 LADDER TO MEZZANINE/ BED ABOVE

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MULTIPLE SITES  
SAMPLE INFRASTRUCTURE  
CABIN

LB-D615INPL

